	STATE OF UTAH  DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS AND MINING  1. WELL NAME and NUMBER												
		APPL	ICATION FOR PER	MIT TO DRILL					1. WELL		MBER e Tribal 12-04	-E4	
2. TYPE OF									3. FIELD	OR WILDCAT	6 111bai 12-04		
1 7/25 25		RILL NEW WELL 🔳	REENTER P&A WE	LL DEEP	EN WELL (	2			BRUNDAGE CANYON				
4. TYPE OF		Oil W	ell Coalbed Me	thane Well: NO					5. UNIT or COMMUNITIZATION AGREEMENT NAME				
6. NAME OF	OPERATOR		PETROGLYPH OPERA	TING CO					7. OPERATOR PHONE 208 685-7685				
8. ADDRESS	OF OPERATOR	960 Broa	adway Avenue, Ste 500	), Bosie, ID, 837	03				9. OPER	ATOR E-MAIL	oowell@pgei.co	om	
10. MINERA (FEDERAL,	) STATE	) FEE(		12. SURF	ACE OWNERS	450	ATE (	FEE (III)					
13. NAME OF SURFACE OWNER (if box 12 = 'fee')  14. SURFACE OWNER PHONE (if box 12 = 'fee')											)		
Petroglyph Operating Co., Inc. 435-722-2531  15. ADDRESS OF SURFACE OWNER (if box 12 = 'fee')  16. SURFACE OWNER E-MAIL (if box 12 = 'fee')											')		
17 INDIAN	ALLOTTEE OR TR	IRE NAME		INTEND TO CO		PRODUCTION	I FROM		19. SLAN	IT			
(if box 12 =		IDE NAME		TIPLE FORMAT		gling Application	on) NO (		VERTIC	AL DIRI	ECTIONAL 📵	HORIZO	NTAL 🛑
20. LOCAT	ION OF WELL		FOOTA	GES	Q	TR-QTR	SECT	LION	то	WNSHIP	RANGE		MERIDIAN
LOCATION	AT SURFACE		535 FNL 15	556 FWL		NENW	12	2		5.0 S	4.0 W		U
Top of Upp	permost Producin	ıg Zone	660 FNL 6	60 FWL		NWNW	12	2		5.0 S	4.0 W		U
At Total D	epth		660 FNL 6	60 FWL		NWNW	12	2		5.0 S	4.0 W		U
21. COUNT		CHESNE	22.	DISTANCE TO N		EASE LINE (F	eet)		23. NUME	BER OF ACRE	S IN DRILLING 480	UNIT	
				DISTANCE TO N	g or Com		POOL		26. PROP	POSED DEPTH MD:	6139 TVD:	6026	
27. ELEVAT	ION - GROUND LE	EVEL	28.	BOND NUMBER		001				CE OF DRILL			
	Ę	5968			LPM4	138153			WATER R	RIGHTS APPRO	43-8342	IF APPLICA	ABLE
				Hole, Casii		Cement Info							
String	Hole Size	Casing Size		Weight		Ie & Thread         Max Mud Wt.         Cement         Sacks         Yield           Jnknown         10.0         Class G         25         1.17						Weight	
Cond Surf	12.25	8.625	0 - 54	5.0		-55 ST&C	_	10.0		Class G	227	1.17	15.8
Prod	7.875	5.5	0 - 6139	15.5		-55 LT&C		10.0		Class G	458	1.92	12.5
										Class G	344	1.46	13.4
				<u> </u>	ATTACI	HMENTS						<u> </u>	
	VERIFY	THE FOLLOWII	NG ARE ATTACHE	O IN ACCORDA	ANCE W	ITH THE UTA	AH OIL AN	ND GAS	CONSE	RVATION GE	NERAL RUL	.ES	
<b>W</b> EL	LL PLAT OR MAP P	REPARED BY LICE	ENSED SURVEYOR OR	ENGINEER		<b>№</b> сом	PLETE DRI	ILLING PL	.AN				
AFFI	DAVIT OF STATUS		FORM	1 5. IF OPE	RATOR IS	OTHER	THAN THE LE	ASE OWNER					
DIRECTIONAL SURVEY PLAN (IF DIRECTIONALLY OR HORIZONTALLY DRILLED)  TOPOGRAPHICAL MAP													
NAME Ed 1	Frotter			TITLE Agen	t			PHONE	435 789	9-4120			
SIGNATUR				DATE 11/0:						@easilink.com			
	ER ASSIGNED 1351840000	00	APPROVAL BOOKER										
							P	ermit N	Manager				

### CONFIDENTIAL

# NINE POINT DRILLING PLAN PETROGLYPH OPERATING COMPANY, INC UTE TRIBAL 12-04-E4 NW NW, SEC 12, T5S, R4W DUCHESNE COUNTY, UTAH

### 1. ESTIMATED TOPS OF IMPORTANT GEOLOGICAL MARKERS:

Formation		Subsea	TVD	MD
Rig KB=~14' above GGL		5981	0	0
Surface Formation = <b>Uinta</b>				
Uinta		5967	14	14
Green River		4775	1206	1209
Trona		3455	2526	2569
Mahogany Shale		3302	2679	2728
"B" Marker	_ =	2165	3816	3907
"X" Marker	00 2	1665	4316	4420
Douglas Creek Marker	interior	1525	4456	4561
"B" Limestone	Waterflood Unit Interval	1125	4856	4963
Base Castle Peak Limestone	> 5	585	5396	5503
BSCARB		185	5796	5903
Wasatch		-65	NDE	NDE
Rig TD		-45	6026	6139

# 2. ESTIMATED DEPTHS OF ANTICIPATED WATER, OIL, GAS OR MINERAL FORMATIONS:

Substance	Formation	Subsea	TVD	MD
Base of moderately saline ground	Uinta	5950	31	31
water*				
Oil/Gas	Douglas Creek	1525	4456	4561
Oil/Gas	Castle Peak	585	5396	5503

Any water encountered during drilling shall be sampled, analyzed and reported to BLM, Vernal office using State of Utah DOGM Form 7 *Report of Water Encountered during Drilling*. The following analyses shall be performed on any water encountered:

Flow rate (or blowtest) Temperature pH TDS

Dissolved Iron Dissolved Magnesium Dissolved Bicarb. Dissolved Sulfate
Dissolved Calcium Dissolved Sodium Dissolved Carbonate Dissolved Chloride

All depths through the "Base of moderately saline ground water", along with any water encountered below that depth which is less than 10,000 TDS, shall be protected by the surface casing or by lifting the cement of the production casing into the surface casing.

<sup>\*</sup>Base of Moderately Saline Groundwater from Howells, Longson and Hunt, 1981, Utah State Technical Publication 92: The Base of the Moderately Saline Water in the Uinta Basin, Utah



# NINE POINT DRILLING PLAN PETROGLYPH OPERATING COMPANY, INC UTE TRIBAL 12-04-E4 NW NW, SEC 12, T5S, R4W DUCHESNE COUNTY, UTAH

### 3. PROPOSED CASING PROGRAM:

String	Hole	Casing	Top - MD	Bottom - MD	Weight lb/ft	Grade	Thread
Conductor	20"	14"	surface	54'	steel	Cond'r	none
Surface	12-1/4"	8-5/8"	surface	494'	24	J-55	STC
Production	7-7/8"	5-1/2"	surface	6139'	15.5	J-55	LTC

String	Hole	Casing	Collapse	Burst	Tensile
Surface	12-1/4"	8-5/8"	1,370 psi	2,950 psi	244,000 lb
Production	7-7/8"	5-1/2"	4,040 psi	4,810 psi	248,000 lb

- All casing will be new or inspected.
- The surface and production strings shall have a minimum of one (1) centralizer on each of the bottom three (3) joints.
- The production string shall have a minimum of one (1) centralizer for every three (3) joints from TD to the top of the "B" marker at 3907'MD.

### 4. PROPOSED CEMENTING PROGRAM:

String	Top Bottom	Cement Description	Sacks Vol (ft³)	Excess	Weight (ppg)	Yield (ft³/sk)
Conductor	0 54	Construction Grade Cement	Sufficien	nt volumes	to grout Co	onductor
Surface	0	Class G +2% CaCl2	227	30%	15.8	1.17
	494	+0.25 lb/sk Cello Flake	265			
Production	0	EXPANDACEM (Class G +additives)	458	30%	12.5	1.92
Lead	3907	+ 1 lb/sk Granulite TR1/4 (LCM)	880	30 /0	12.5	1.32
Production	3907	EXPANDACEM (Class G +additives)	344	30%	13.4	1.46
Tail	6139	+ 1 lb/sk Granulite TR¼ (LCM)	503	30%	13.4	1.46

- The 8-5/8" surface casing shall be cemented back to surface. In the event that during the primary surface cementing operation the cement does not circulate to surface, or if the cement level should fall back more than 8 feet from surface, then a remedial surface cementing operation shall be performed to insure adequate isolation and stabilization of the surface casing.
- The 5-1/2" production casing shall be cemented back to surface. In the event that during the primary cementing operation the cement does not circulate to surface, a remedial cementing operation shall be performed only if necessary to lift cement above the Trona at 2569'MD.



NINE POINT DRILLING PLAN
PETROGLYPH OPERATING COMPANY, INC
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### 5. MINIMUM PRESSURE CONTROL AND SAFETY EQUIPMENT:

- An 8", 2000 PSI, Double Ram BOPE with Hydraulic Closing Unit shall be used.
- A 2000 PSI Working Pressure Annular shall be used.
- The flowline shall have a minimum diameter of 10".
- Auxiliary equipment shall be a Kelly Cock, Bit Float, and a TIW valve with drill pipe threads.
- Spark arrestors shall be equipped on all engine exhausts within 100 feet of the wellbore.
- See attached 2,000 psi BOP schematic diagram.

### **BOPE TESTING PROCEDURE:**

• The BOPE shall be tested by a professional tester to conform to Onshore Order #2.

### 6. MUD PROGRAM:

### A. SURFACE HOLE

- The surface hole will be drilled with an air/mist system from 0' to 494'. All cutting shall be directed to pit.
- A trailer-mounted compressor with a capacity of 2000 CFM will be used. Compressor will have a safety shut-off valve located less than 15 feet from the driller's controls of the rig.
- The rat and mouse holes will be drilled with the air rig after surface casing is cemented.
- The 140 barrel water truck used with the deduster will be the source of kill fluid in the highly unlikely event of pressure being encountered during drilling of the surface hole.
- Operator requests the following variances from Onshore Order 2 part E during drilling of the surface hole. Operator will use air drilling techniques only on surface hole:
  - Operator requests a variance to regulations requiring the blooie line discharge to be 100' from the wellbore. Due to reduced location size, the blooie line discharge will be approximately 75' from the wellbore and securely anchored.
  - Operator requests a variance to regulations requiring an automatic igniter or continuous pilot light on the blooie line. A mister shall be on the end of the blooie line.
  - Operator requests a variance to regulations requiring compressors be located in the opposite direction from the blooie line; a minimum of 100' from the wellbore. Due to the reduced location size, the compressors shall be located as close as is reasonable to the opposite direction from the blooie line and 75' from the wellbore.
  - o Operator requests a variance to regulations requiring a BOPE on the hole when drilling the surface hole. An air bowl shall be utilized on the diverter system in place of a BOPE.



# NINE POINT DRILLING PLAN PETROGLYPH OPERATING COMPANY, INC UTE TRIBAL 12-04-E4 NW NW, SEC 12, T5S, R4W DUCHESNE COUNTY, UTAH

### B. PRODUCTION HOLE

- The production hole shall be drilled with a freshwater polymer system from 494' to 6139'. LSND mud if conditions warrant.
- Clay inhibition and hole stability shall be achieved with a Diammonium Phosphate (DAP) additive or similar source of clay-stabilizing ions. Anticipated mud weight is 8.3-8.8 lbs/gal. although mud weight up to 10lbs/gal may be used if necessary to prevent wellbore wall instability due to the planned inclination of the well.
- All cuttings and circulating medium shall be directed into the reserve pit. Total Dissolved Solids (TDS) are anticipated to be less than 3000 PPM.
- Sufficient mud inventory will be maintained on location in either tanks or the reserve pit during the drilling of the production hole to handle any adverse conditions that may arise.
- If necessary to control formation fluids or pressure, the system will be weighted with the addition of bentonite gel, and if pressure conditions warrant, with barite. Enough material shall be maintained on location to allow for the mudweight to be raised to 10.5 lbs/gal should need arise.
- During drilling operations, pit levels and flow from the well shall be monitored by instrumentation to include at least: a pit volume totalizer (PVT), a stroke counter, and a mud-flow indicator.
- A mud-gas separator shall be available on location.

### C. HAZARDOUS MATERIALS AND POLLUTANTS

- Chromate additives **shall NOT** be used in the mud system on Indian lands without prior DOGM approval to ensure adequate protection of freshwater aquifers.
- Chemicals subject to reporting under SARA Title III in an amounts equal to or greater than 10,000 pounds annually **shall NOT** be used, produced, stored, transported, or disposed of in association with the drilling, testing, or completion of this well.
- Extremely hazardous substances, as defined in 40 CFR 355, in threshold planning quantities shall NOT be used, produced, stored, transported, or disposed of in association with the drilling, testing, or completion of this well.
- Hazardous substances specifically listed by the EPA as a hazardous waste, as defined in 40 CFR 261 (D), or any substances that through their use would lead to the generation of a hazardous waste, **shall NOT** be used in association with the drilling, testing, or completion of this well.



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# NINE POINT DRILLING PLAN PETROGLYPH OPERATING COMPANY, INC UTE TRIBAL 12-04-E4 NW NW, SEC 12, T5S, R4W DUCHESNE COUNTY, UTAH

### 7. EVALUATION PROGRAM:

Logs: Triple Combo TD to base of surface casing (AIT, DSN, CDL)

Base of surface casing to surface (GR only)

Cores: None planned

DST: None planned

Testing: Operator plans no testing until the completion phase of the well.

### 8. ANTICIPATED ABNORMAL PRESSURE OR TEMPERATURÉ:

- Operator anticipates Bottom Hole Temperatures below 150°F, the maximum temperature for DAP drilling fluids.
- No H<sub>2</sub>S has been encountered or is known to exist from previous drilling in the area at this depth.
- Maximum pressure for hydrocarbon bearing zones at native conditions in this area is approximately 1535 PSI (0.25 PSI/ft gradient).
- This well is NOT in the vicinity of active injection wells. Nearby active injection can cause pressures up to a 0.433 PSI/ft gradient.

### 9. DIRECTIONAL WELL PLAN:

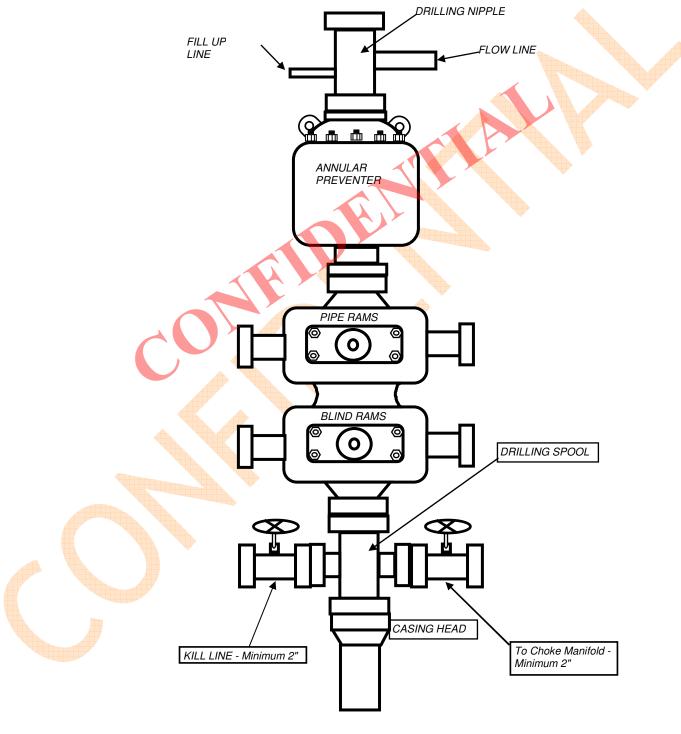
- Well shall be drilled directionally in order to limit surface disturbance.
- A Positive Displacement Motor with a bent sub of 1.25° to 1.75° will be used to control well path.
- A directional survey shall be taken at least one (1) time per 100' of drilling.
- Anti-collision equipment will not be used as there are no existing wells in the vicinity of the proposed well path.
- While cutting the Waterflood Unit Interval from 3907' to 5903', the actual well path may be allowed to vary up to 100' horizontally from plan in order to prevent excessive slide drilling.

  Above and below the Waterflood Unit Interval, variances in excess 100' horizontally from plan may be allowed.
- Directional drilling plan is attached.



NINE POINT DRILLING PLAN
PETROGLYPH OPERATING COMPANY, INC
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DUCHESNE COUNTY, UTAH

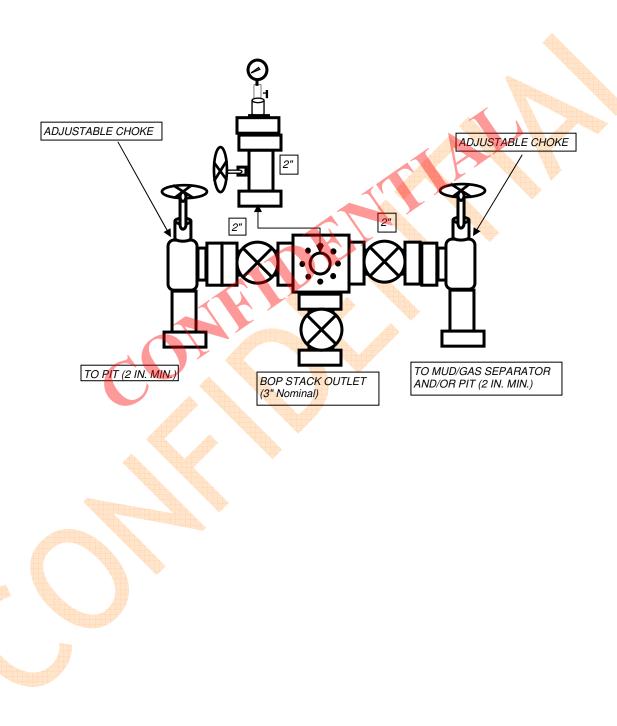
### TYPICAL 2,000 p.s.i. BLOWOUT PREVENTER

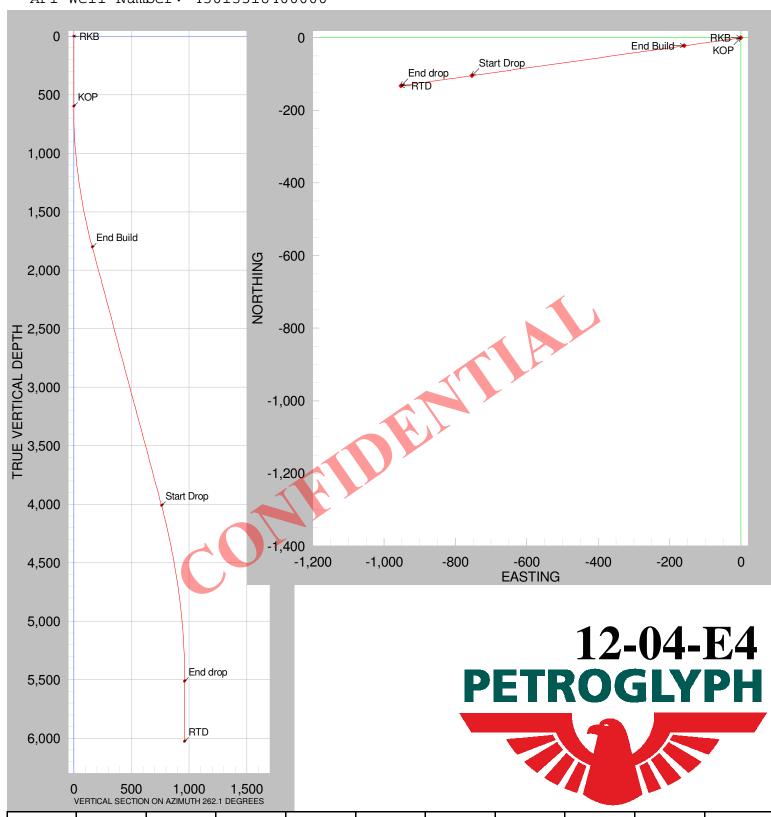




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NINE POINT DRILLING PLAN
PETROGLYPH OPERATING COMPANY, INC
UTE TRIBAL 12-04-E4
NW NW, SEC 12, T5S, R4W
DUCHESNE COUNTY, UTAH
TYPICAL 2,000 p.s.i. CHOKE MANIFOLD





#	Reference	Туре	MD	Inc	Azi	TVD	N	E	DLS	Vert S
0	RKB	Tie Point	0.00	0.00	0.00	0.00	0.00	0.00		0.00
1	КОР	Vertical	600.00	0.00	0.00	600.00	0.00	0.00	0.00	0.00
2	End Build	Build	1816.00	15.20	262.10	1801.79	-22.04	-158.83	1.25	160.35
3	Start Drop	Tangent	4106.00	15.20	262.10	4011.67	-104.56	-753.55	0.00	760.77
4	End drop	Drop	5626.00	0.00	0.00	5513.91	-132.11	-952.08	1.00	961.21
5	RTD	Vertical	6139.00	0.00	0.00	6026.91	-132.11	-952.08	0.00	961.21

RECEIVED: November 02, 2012

SES - Stoner Engineering Software

12-04-E4, Plan 1											
Operator Field	Petroglyph			Units	feet, %100ft Duchesne	, i idii	11:1	1 Thursday, Octobe		1 of 4	
Well Name Plan	-			State Country			Surve	y Calculation Metho Databas	d Minimum Curvatu e Access	ıre	
Locatio Sit		L 1556' F\	VL 12-5s-4w			MapZon Surface		Lat Lor Surface	_		
Slot Nam			UWI			Surface		Surfa	ce Lat		
Well Number			API			Z Datur					
Projec						Surface	Z	Ground	Level		
DIRECTIONA											
MD*	INC*	AZI*	TVD*	N*	E*	DLS*	V. S.*	MapE*	MapN* Sys		
ft	deg	deg	ft	ft	ft	%100ft	ft	ft	ft	ft	
*** RKB (at		•	0.00	0.00	0.00		0.00				
0.00 50.00	0.00 0.00	0.0 0.0	0.00 50.00	0.00	0.00 0.00	0.00	0.00				
100.00	0.00	0.0	100.00	0.00	0.00	0.00	0.00				
150.00	0.00	0.0	150.00	0.00	0.00	0.00	0.00				
200.00	0.00	0.0	200.00	0.00	0.00	0.00	0.00				
050.00	0.00	0.0	050.00	0.00	0.00	0.00	0.00				
250.00	0.00	0.0	250.00	0.00	0.00	0.00	0.00				
300.00 350.00	0.00 0.00	0.0 0.0	300.00 350.00	0.00	0.00	0.00	0.00				
400.00	0.00	0.0	400.00	0.00	0.00	0.00	0.00				
450.00	0.00	0.0	450.00	0.00	0.00	0.00	0.00				
	0.00	0.0		7	, 0.00	0.00	0.00				
500.00	0.00	0.0	500.00	0.00	0.00	0.00	0.00				
550.00	0.00	0.0	550.00	0.00	0.00	0.00	0.00				
*** KOP (at		-									
600.00	0.00	0.0	600.00	0.00	0.00	0.00	0.00				
650.00	0.63 1.25	26 <mark>2.1</mark> 262.1	650.00	-0.04 -0.15	-0.27 -1.08	1.25 1.25	0.27				
700.00	1.23	202.1	699.99	-0.15	-1.00	1.20	1.09				
750.00	1.88	262.1	749.97	-0.34	-2.43	1.25	2.45				
800.00	2.50	262.1	799.94	-0.60	-4.32	1.25	4.36				
850.00	3.13	262.1	849.88	-0.94	-6.75	1.25	6.82				
900.00	3.75	262.1	899.79	-1.35	-9.72	1.25	9.81				
950.00	4.38	262.1	949.66	-1.84	-13.23	1.25	13.36				
1000.00	5.00	262.1	999.49	-2.40	-17.28	1.25	17.44				
1050.00	5.63	262.1	1049.28	-3.03	-21.86	1.25	22.07				
1100.00	6.25	262.1	1099.01	-3.74	-26.99	1.25	27.24				
1150.00	6.88	262.1	1148.68	-4.53	-32.65	1.25	32.96				
1200.00	7.50	262.1	1198.29	-5.39	-38.84	1.25	39.21				
1050.00	0 10	060 1	1047.00	6.00	AE E7	1.05	46.01				
1250.00	8.13 8.75	262.1	1247.82 1297.28	-6.32 -7.33	-45.57 -52.84	1.25 1.25	46.01 53.35				
1300.00 1350.00	8.75 9.38	262.1 262.1	1297.28	-7.33 -8.41	-52.84 -60.64	1.25 1.25	53.35 61.22				
1400.00	10.00	262.1	1395.94	-9.57	-68.98	1.25	69.64				
1450.00	10.63	262.1	1445.14	-10.80	-77.84	1.25	78.59				
1500.00	11.25	262.1	1494.23	-12.11	-87.24	1.25	88.07				
1550.00	11.88	262.1	1543.21	-13.48	-97.16	1.25	98.10				
1600.00	12.50	262.1	1592.09	-14.93	-107.62	1.25	108.65				
1650.00	13.13	262.1	1640.84	-16.46	-118.60	1.25	119.74				

SES - Stoner Engineering Software

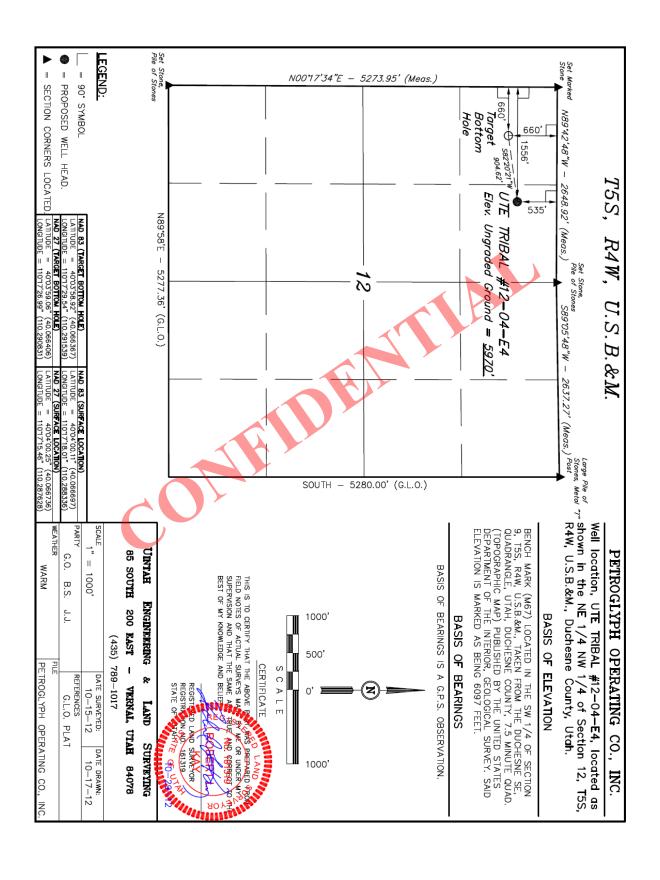
12-04-E4, Plan 1											
Field	Petroglyph			Units County	feet, %100ft Duchesne	, i idii	11:11 <b>Vert</b>	Thursday, October	262.1		
Well Name Plan	-			State Country			Survey	Calculation Method Database		ıre	
		IL 1556' F\	VL 12-5s-4w			MapZo		Lat Long			
Siet Nom			UWI			Surface Surface		Surface L Surface	_		
Slot Nam Well Numbe			API			Z Datu		Suriace	Lat		
Projec			Air			Surface		Ground L	evel		
DIRECTIONA	AL WELL P	LAN									
MD*	INC*	AZI*	TVD*	N*	E*	DLS*	V. S.*	MapE*	MapN* Sys	TVD*	
ft	deg	deg	ft	ft	ft	%100ft	ft	ft	ft	ft	
1700.00	13.75	262.1	1689.47	-18.05	-130.11	1.25	131.36				
1750.00	14.38	262.1	1737.97	-19.72	-142.15	1.25	143.51				
1800.00	15.00	262.1	1786.34	-13.72	-154.70	1.25	156.18				
*** END BU				,		·· <u>-</u> 3	( )				
1816.00	15.20	262.1	1801.79	-22.04	-158.83	1.25	160.35				
1850.00	15.20	262.1	1834.60	-23.26	-167.66	0.00	169.27				
1900.00	15.20	262.1	1882.85	-25.07	-180.65	0.00	182.38				
1950.00	15.20	262.1	1931.10	-26.87	-193.63	0.00	195.49				
2000.00	15.20	262.1	1979.35	-28.67	-206.62	0.00	208.60				
2050.00	15.20	262.1	2027.60	-30.47	-219.60	0.00	221.70				
2100.00	15.20	262.1	2075.85	-32.27	-232.59	0.00	234.81				
2150.00	15.20	262.1	2124.10	-34.08	-245.57	0.00	247.92				
2200.00	15.20	262.1	2172.35	-35.88	-258.56	0.00	261.03				
2250.00	15.20	26 <mark>2</mark> .1	2220.60	-37.68	-271.54	0.00	274.14				
2300.00	15.20	262.1	2268.85	-39.48	-284.53	0.00	287.25				
2350.00	15.20	262.1	2317.11	-41.28	-297.51	0.00	300.36				
2400.00	15.20	262.1	2365.36	-43.08	-310.50	0.00	313.47				
2450.00	15.20	262.1	2413.61	-44.89	-323.48	0.00	326.58				
2500.00	15.20	262.1	2461.86	-46.69	-336.47	0.00	339.69				
2550.00	15.20	262.1	2510.11	-48.49	-349.45	0.00	352.80				
2600.00	15.20	262.1	2558.36	-50.29	-362.44	0.00	365.91				
2650.00	15.20	262.1	2606.61	-52.09	-375.42	0.00	379.02				
2700.00	15.20	262.1	2654.86	-53.90	-388.41	0.00	392.13				
2750.00	15.20	262.1	2703.11	-55.70	-401.39	0.00	405.24				
2800.00	15.20	262.1	2751.36	-57.50	-414.38	0.00	418.35				
2850.00	15.20	262.1	2799.61	-59.30	-427.36	0.00	431.46				
2900.00	15.20	262.1	2847.86	-61.10	-440.35	0.00	444.57				
2950.00	15.20	262.1	2896.12	-62.90	-453.33	0.00	457.68				
3000.00	15.20	262.1	2944.37	-64.71	-466.32	0.00	470.78				
3050.00	15.20	262.1	2992.62	-66.51	-479.30	0.00	483.89				
3100.00	15.20	262.1	3040.87	-68.31	-492.29	0.00	497.00				
3150.00	15.20	262.1	3089.12	-70.11	-505.27	0.00	510.11				
3200.00	15.20	262.1	3137.37	-71.91	-518.26	0.00	523.22				
3250.00	15.20	262.1	3185.62	-73.72	-531.24	0.00	536.33				
3300.00	15.20	262.1	3233.87	-75.52	-544.23	0.00	549.44				

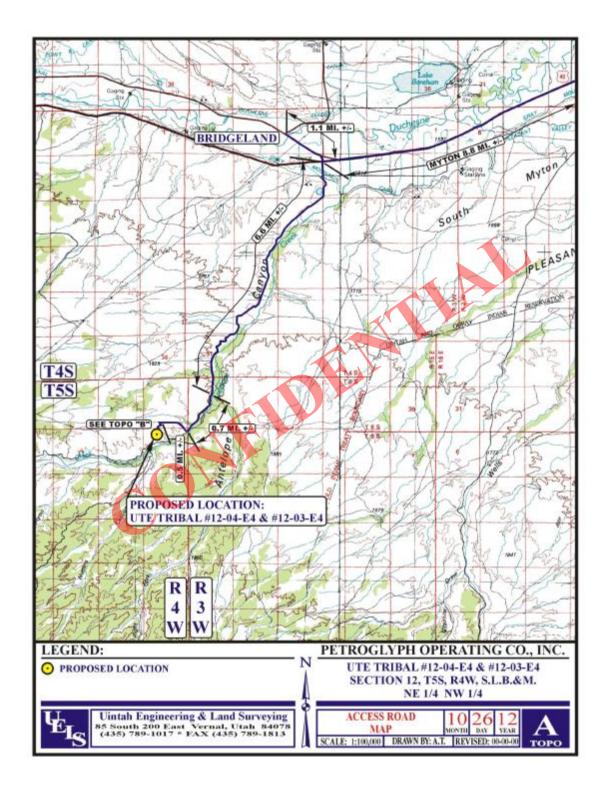
SES - Stoner Engineering Software

12-04-E4, Plan 1											
Operator	Petroglyph				feet, %100ft	, i idii		. Thursday, October	18 2012 Page	3 of 4	
Field	i ettogrypii				Duchesne			ical Section Azimuth	•	3 01 4	
Well Name	12-04-E4			State				Calculation Method		ıre	
Plan	1			Country	USA			Database			
		L 1556' FV	VL 12-5s-4w			MapZon		Lat Long			
Sit						Surface		Surface L	_		
Slot Nam			UWI			Surface		Surface	e Lat		
Well Numbe			API			Z Datur		Ground L	ovel		
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MD*	INC*	AZI*	TVD*	N*	E*	DLS*	V. S.*	MapE*	MapN* Sys		
ft	deg	deg	ft	ft	ft	%100ft	ft	ft	ft	ft	
3350.00	15.20	262.1	3282.12	-77.32	-557.21	0.00	562.55				
3400.00	15.20	262.1	3330.37	-79.12	-570.20	0.00	575.66				
3450.00	15.20	262.1	3378.62	-80.92	-583.18	0.00	588.77				
3500.00	15.20	262.1	3426.87	-82.73	-596.17	0.00	601.88				
3550.00	15.20	262.1	3475.13	-84.53	-609.15	0.00	614.99				
3600.00	15.20	262.1	3523.38	-86.33	-622.14	0.00	628.10				
3650.00	15.20	262.1	3571.63	-88.13	-635.12	0.00	641.21				
0700.00	45.00	000.4	0040.00	00.00	04044	0.00	054.00				
3700.00	15.20	262.1	3619.88	-89.93	-648.11	0.00	654.32				
3750.00	15.20	262.1	3668.13	-91.73	-661.09	0.00	667.43				
3800.00 3850.00	15.20 15.20	262.1 262.1	3716.38 3764.63	-93.54 -95.34	-674.08 -687.06	0.00 0.00	680.54 693.65				
3900.00	15.20	262.1	3812.88	-95.34 -97.14	-700.05	0.00	706.75				
3900.00	15.20	202.1	3012.00	7.14	-700.03	0.00	700.75				
3950.00	15.20	262.1	3861.13	-98.94	-713.03	0.00	719.86				
4000.00	15.20	26 <mark>2</mark> .1	3909.38	-100.74	-726.02	0.00	732.97				
4050.00	15.20	262.1	3957.63	-102.55	-739.00	0.00	746.08				
4100.00	15.20	262.1	4005.88	-104.35	-751.99	0.00	759.19				
*** START D											
4106.00	15.20	262.1	4011.67	-104.56	-753.55	0.00	760.77				
4150.00	14.76	262.1	4054.18	-106.13	-764.81	1.00	772.14				
4200.00	14.26	262.1	4102.58	-107.85	-777.22	1.00	784.67				
4250.00	13.76	262.1	4151.10	-109.51	-789.21	1.00	796.77				
4300.00	13.26	262.1	4199.71	-111.12	-800.78	1.00	808.45				
4350.00	12.76	262.1	4248.43	-112.66	-811.93	1.00	819.71				
4400.00	10.06	262.1	4207.24	11/15	922.66	1.00	020 54				
4400.00 4450.00	12.26 11.76	262.1 262.1	4297.24 4246.15	-114.15 -115.58	-822.66	1.00 1.00	830.54 840.94				
4500.00	11.76	262.1	4346.15 4395.14	-115.56	-832.96 -842.84	1.00	850.92				
4550.00	10.76	262.1	4444.22	-118.95	-852.30	1.00	860.47				
4600.00	10.76	262.1	4493.38	-119.52	-861.34	1.00	869.59				
.555.55	. 0.20		00.00	. 10.02	301.04	1.00	550.00				
4650.00	9.76	262.1	4542.62	-120.71	-869.94	1.00	878.28				
4700.00	9.26	262.1	4591.93	-121.85	-878.13	1.00	886.54				
4750.00	8.76	262.1	4641.32	-122.93	-885.88	1.00	894.37				
4800.00	8.26	262.1	4690.77	-123.94	-893.21	1.00	901.77				
4850.00	7.76	262.1	4740.28	-124.90	-900.11	1.00	908.74				
4900.00	7.26	262.1	4789.85	-125.80	-906.59	1.00	915.27				
4900.00	6.76	262.1	4839.48	-125.60	-912.63	1.00	921.37				
.300.00	<u> </u>			. 20.0 1	3.2.00		0=1.07				

SES - Stoner Engineering Software

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Well Numb Proje			API			Z Datui Surface		Ground	Level	
IRECTION	AL WELL PL	.AN								
MD*	INC*	AZI*	TVD*	N*	E*	DLS*	V. S.*	MapE*	MapN* Sy	sTVD
ft	deg	deg	ft	ft	ft	%100ft	ft	ft	ft	f
5000.00	6.26	262.1	4889.15	-127.42	-918.24	1.00	927.04			
5050.00	5.76	262.1	4938.88	-128.14	-923.43	1.00	932.28			
5100.00	5.26	262.1	4988.65	-128.80	-928.19	1.00	937.08			
5150.00	4.76	262.1	5038.46	-129.40	-932.51	1.00	941.45			
5200.00	4.26	262.1	5088.30	-129.94	-936.40	1.00	945.38			
5250.00	3.76	262.1	5138.18	-130.42	-939.87	1.00	948.87			
5300.00	3.26	262.1	5188.08	-130.84	-942.90	1.00	951.93			
5350.00	2.76	262.1	5238.01	-131.20	-945.50	1.00	954.56			
5400.00	2.26	262.1	5287.97	-131.50	-947.67	1.00	956.75			
5450.00	1.76	262.1	5337.94	-131.74	-949.41	1.00	958.50			
5500.00	1.26	262.1	5387.92	-131.92		1.00	959.82			
5550.00	0.76	262.1	5437.91	-132.04	-951.58	1.00	960.70			
5600.00	0.76	262.1	5487.91	-132.10	-952.03	1.00	961.15			
* END DR	OD (at MD	- 5626	00)							
	0.00	= <b>56</b> 26.	5513.91	-132.11	052.09	1.00	961.21			
5626.00					-952.08					
5650.00	0.00	0.0	5537.91	-132.11	-952.08	0.00	961.21			
5700.00	0.00	0.0	5587.91	-132.11	-952.08	0.00	961.21			
5750.00	0.00	0.0	5637.91	-132.11	-952.08	0.00	961.21			
5800.00	0.00	0.0	5687.91	-132.11	-952.08	0.00	961.21			
5850.00	0.00	0.0	5737.91	-132.11	-952.08	0.00	961.21			
5900.00	0.00	0.0	5787.91	-132.11	-952.08	0.00	961.21			
5950.00	0.00	0.0	5837.91	-132.11	-952.08	0.00	961.21			
6000.00	0.00	0.0	5887.91	-132.11	-952.08	0.00	961.21			
6050.00	0.00	0.0	5937.91	-132.11	-952.08	0.00	961.21			
6100.00	0.00	0.0	5987.91	-132.11	-952.08	0.00	961.21			
		-	6006.04	100 11	050.00	0.00	064.04			
6139.00	0.00	0.0	6026.91	-132.11	-952.06	0.00	901.21			
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PETROGLYPH OPERATING CO., INC. P.O. BOX 607 ROOSEVELT, UTAH 84066

November 2, 2012

Ms. Diana Mason State of Utah Division of Oil, Gas & Mining 1594 West North Temple, Suite 1210 P.O. Box 145801 Salt Lake City, UT 84114-5801

Re: Directional Drilling R649-3-11

Ute Tribal 12-04-E4: 535' FNL & 1556' FWL, NE/4NW/4, SEC. 12, (Surface Hole)

660' FNL & 660' FWL, NW/4NW/4, Sec. 12, (Bottom Hole)

T5S, R4W, U.S.B.&M., Duchesne County, Utah

Dear Ms. Mason,

Pursuant to the filing of Petroglyph Operating Co., Inc.'s Application for Permit to Drill regarding the above referenced well on November 2, 2012, we are hereby submitting this letter in accordance with Oil & Gas Conservation Rule R649-3-11 pertaining to the Exception to Location and Siting of Wells.

- The Ute Tribal 08-02-D4 is located within the Antelope Creek Unit Area.
- Petroglyph Operating Co., Inc. is permitting this well as a directional well in order to minimize surface disturbance. Locating the well at the surface location and drilling directionally from this location, Petroglyph Operating Co., Inc. will be able to utilize the existing road and pipelines in the area.
- Furthermore, Petroglyph Operating Co., Inc. hereby certifies that it is the sole working interest owner within 460 feet of the entire directional well bore.

Therefore, based on the above stated information, Petroglyph Operating Co., Inc. requests the permit be granted pursuant to R649-3-11.

Respectfully Submitted,

Ed Trotter, Agent P.O. Box 1910 Vernal, UT 84078 Phone: (435)789-4120

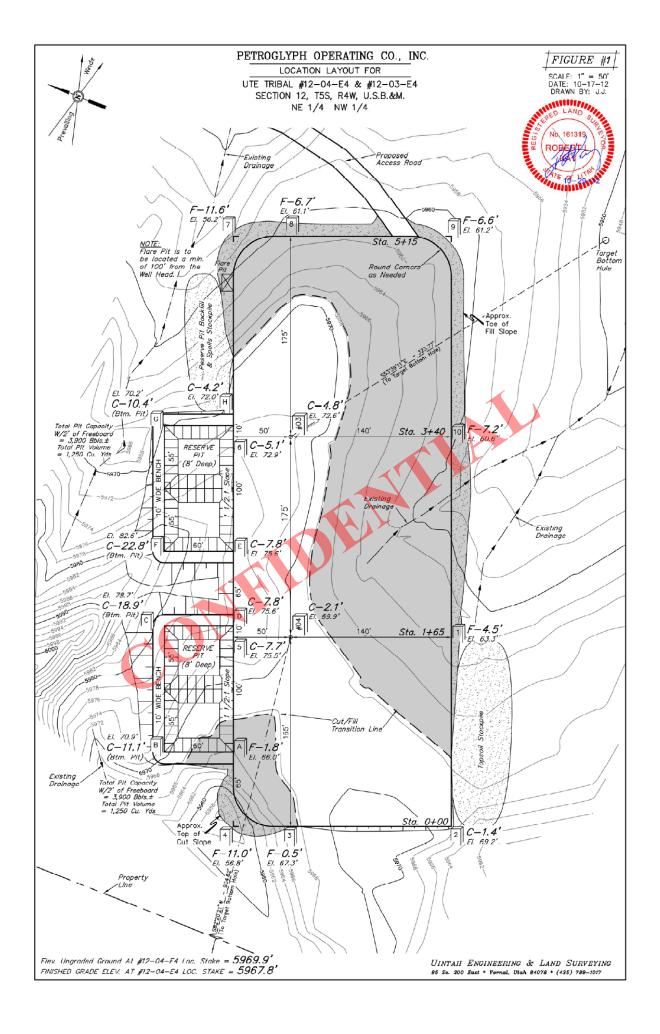
Fax: (435)789-1420

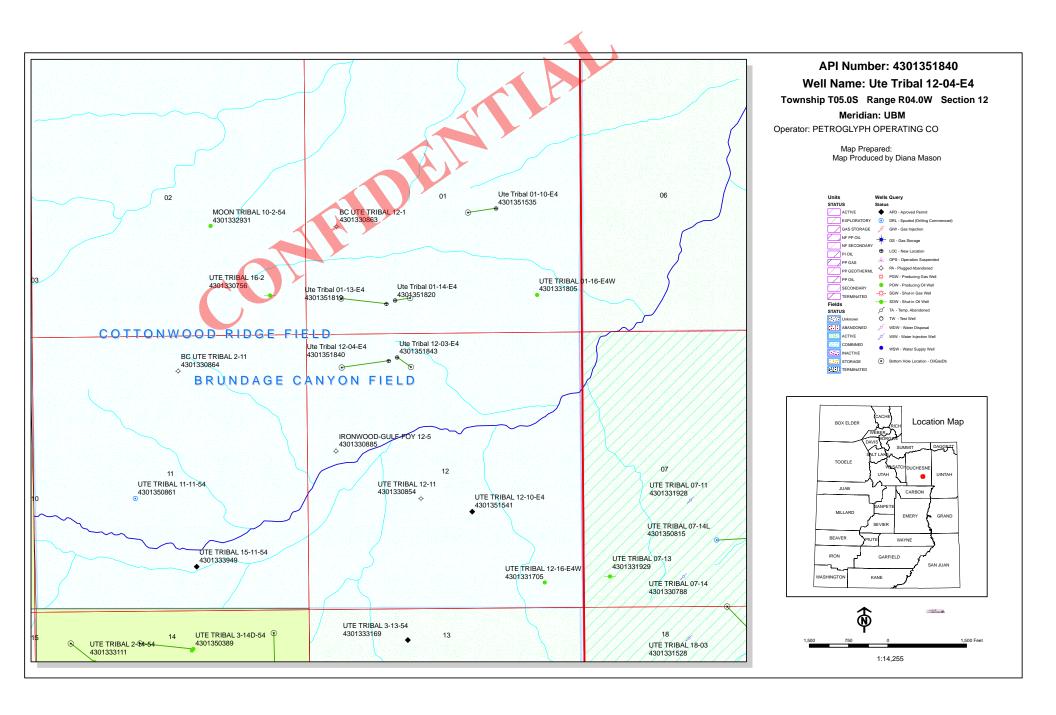
E-mail: edtrotter@easilink.com

### **Certification**

I hereby certify that I, or persons under my direct supervision, have inspected the proposed drillsite and access route; that I am familiar with the conditions that presently exist; that the statements made in the Plan are, to the best of my knowledge, true and correct; and that the work associated with the operations proposed herein will be performed by Petroglyph Operating Co., Inc. and its contractors and subcontractors in conformity with this Plan and the terms and conditions under which it is approved.

Please be advised that Petroglyph Operating Co., Inc. is considered to be the operator of the UTE TRIBAL 12-04-E4 Well, located in NE/NW of Section 12, T5S, R4W, Duchesne County, Utah, lease #14-20-H62-4744; and is responsible under the terms and conditions of the lease for the operations conducted upon the leased lands. Bond Coverage is provided under Bond #LPM4138153.





## **ON-SITE PREDRILL EVALUATION**

Utah Division of Oil, Gas and Mining

**Operator** PETROGLYPH OPERATING CO

Well Name Ute Tribal 12-04-E4

**BRUNDAGE API Number** 43013518400000 APD No 7085 Field/Unit **CANYON** 

Location: 1/4,1/4 NENW Sec 12 Tw 5.0S Rng 4.0W 535 FNL 1556 FWL

**GPS Coord (UTM)** 560686 4435403 Surface Owner Petroglyph Operating Co., Inc.

### **Participants**

Rodrigo Jurado & Les Farnsworth (Petrolglyph Operating and landowner); Ed Trotter (Land Agent); Bill Civish (BLM); Dennis Ingram (Utah Division of Oil, Gas & Mining)

### Regional/Local Setting & Topography

The Ute Tribal 12-03-E4 and 12-04-E4 are both proposed on connected locations as directional wells that target the NE/NW and the NW/NW of Section 12, Township 5 South, Range 4 West. This pad is in northeastern Utah on the southern boundary of the Uintah Basin, approximately 9.0 miles south/southwest of the Bridgeland/U.S. Highway 40 junction, along the Antelope Canyon road one mile south of the Antelope/Sowers Canyon Junction. Broad, bench like habitat slopes north from Anthro Mountain into the Uintah Basin, having the lowest elevation at the Duchesne River. These broad benches have numerous drainages that drain the high country northerly, with Sowers Canyon being one of the primary arteries. This well pad is positioned approximately 0.3 miles west of Sowers Canyon along its western rims, in rolling hills with sparse cedar tree habitat and short, desert-like sagebrush country, on a fingered northeast sloping ridge that drops into the canyon below. The greatest cut for the well pad is along the northern portion of the pad, with a shallow draw draining northeasterly; other drainages to the west near the location edge that drains away from the lease.

### Surface Use Plan

Current Surface Use Deer Winter Range Recreational

New Road **Src Const Material Surface Formation** Well Pad Miles

Width 250 Length 515 0.26 Onsite **UNTA** 

Ancillary Facilities N

### Waste Management Plan Adequate?

### **Environmental Parameters**

Affected Floodplains and/or Wetlands N

#### Flora / Fauna

Sparse vegetation, cedar tree, sagebrush, rabbit brush, bunch grass, prickly pear cactus; mule deer winter range, littered with tracks, elk potential, coyote, rabbit, fox, raptor nest in area, no details.

### Soil Type and Characteristics

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Tan, fine-grained, sandy loam with some clays and shales present

**Erosion Issues** N

Sedimentation Issues N

Site Stability Issues N

### **Drainage Diverson Required?** Y

Re-route any drainages around location

Berm Required? Y

**Erosion Sedimentation Control Required?** N

Paleo Survey Run? Y Paleo Potental Observed? N Cultural Survey Run? Y Cultural Resources? N

### Reserve Pit

Site-Specific Factors	Site Ran	king	
Distance to Groundwater (feet)	>200	0	
Distance to Surface Water (feet)	300 to 1000	2	
Dist. Nearest Municipal Well (ft)	>5280	0	
Distance to Other Wells (feet)		20	
Native Soil Type	Mod permeability	10	
Fluid Type	Fresh Water	5	
Drill Cuttings	Normal Rock	0	
Annual Precipitation (inches)		0	
Affected Populations			
Presence Nearby Utility Conduits	Not Present	0	
	Final Score	37	1 Sensitivity Level

### **Characteristics / Requirements**

Two reserve pits positioned immediately off the north side of location in cut, each measuring 60' wide by 110' long by 8' deep while the area shows prevailing winds from the west.

Closed Loop Mud Required? Liner Required? Y Liner Thickness 16 Pit Underlayment Required?

### Other Observations / Comments

Surface purchased by Petroglyph Operating, no issues.

Dennis Ingram 11/27/2012

Evaluator Date / Time

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# Application for Permit to Drill Statement of Basis

### Utah Division of Oil, Gas and Mining

APD No	API WellNo	Status	Well Type	Surf Owner	CBM
7085	43013518400000	LOCKED	OW	P	No
Operator	PETROGLYPH OPERATING CO		Surface Owner-APD Petroglyph Operating Co., Inc.		erating
Well Name	Ute Tribal 12-04-E4		Unit		
Field	BRUNDAGE CANYON		Type of Work	DRILL	
Location		U 535 FNL	1556 FWL GPS C	oord	

### **Geologic Statement of Basis**

The mineral rights for the proposed well are owned by the Ute Tribe. The BLM will be the agency responsible for evaluating and approving the drilling, casing and cement programs.

Brad Hill **APD Evaluator** 

(UTM) 560699E 4435417N

12/10/2012 **Date / Time** 

### **Surface Statement of Basis**

A presite visit was scheduled and done on Tuesday, November 27, 2012 to take input and address issues regarding the drilling and construction of the Ute Tribal 12-03-E4 and the 12-04-E4 wells on a multi-well pad. Petrolgyph Operating is shown as the landowner of record and was therefore invited to the presite. Rodrigo Jurado came along and represented the landowner interests, and they obviously have a landowner agreement.

Two reserve pits are proposed on this extended, multi-well pad just north of the surface. Both reserve pits are staked immediately off the northern side of the location in cut and provide no issues on stability. However, both pits shall be lined with a minimum 16 mil synthetic liner and a pad if necessary to prevent seepage.

A long, shallow draw drains northerly just north of the location and doesn't provide any issues. Two shallow drainages do head up and begin near the center the location and drain the existing surface to the southeast. Another shallow drainage begins on the western portion of the pad and drains to the west, although none of them should propose a problem once the location is constructed. Both reserve pits shall be prepared for a liner and have a 16 mil or thicker synthetic liner install before the drilling process starts.

The BLM did make note of an existing hawk nest in the area but did not have any details as to how far, or when the nest was last utilized.

Dennis Ingram 11/27/2012
Onsite Evaluator Date / Time

### Conditions of Approval / Application for Permit to Drill

Category Condition

Pits A synthetic liner with a minimum thickness of 16 mils shall be properly installed and maintained in

all reserve pits.

Pits The reserve pit should be located on the north side of the location.

Surface Drainages adjacent to the proposed pad shall be diverted around the location.

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Surface The well site shall be bermed to prevent fluids from leaving the pad.

### **WORKSHEET** APPLICATION FOR PERMIT TO DRILL

**APD RECEIVED:** 11/2/2012 API NO. ASSIGNED: 43013518400000

WELL NAME: Ute Tribal 12-04-E4

**OPERATOR:** PETROGLYPH OPERATING CO (N3800) PHONE NUMBER: 435 789-4120

**CONTACT:** Ed Trotter

PROPOSED LOCATION: NENW 12 050S 040W **Permit Tech Review:** 

> SURFACE: 0535 FNL 1556 FWL **Engineering Review:**

> BOTTOM: 0660 FNL 0660 FWL Geology Review:

**COUNTY: DUCHESNE LATITUDE**: 40.06683 **UTM SURF EASTINGS: 560699.00** 

FIELD NAME: BRUNDAGE CANYON

LEASE TYPE: 2 - Indian

**LEASE NUMBER:** 1420H624744 PROPOSED PRODUCING FORMATION(S): GREEN RIVER

SURFACE OWNER: 4 - Fee **COALBED METHANE: NO** 

### **RECEIVED AND/OR REVIEWED:**

✓ PLAT

Bond: STATE/FEE - LPM4138153

**Potash** 

Oil Shale 190-5

Oil Shale 190-3

Oil Shale 190-13

Water Permit: 43-8342

**RDCC Review:** 

**Fee Surface Agreement** 

**Commingling Approved** 

Intent to Commingle

Comments: Presite Completed **LOCATION AND SITING:** 

R649-2-3.

Unit:

R649-3-2. General

R649-3-3. Exception

**Drilling Unit** 

Board Cause No: R649-3-11

**Effective Date:** 

Siting:

R649-3-11. Directional Drill

1 - Exception Location - bhill Stipulations:

4 - Federal Approval - dmason 5 - Statement of Basis - bhill 15 - Directional - dmason 23 - Spacing - dmason

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LONGITUDE: -110.28821

NORTHINGS: 4435417.00



### State of Utah

DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER
Executive Director

Division of Oil, Gas and Mining

JOHN R. BAZA
Division Director

### Permit To Drill

\*\*\*\*\*\*\*

Well Name: Ute Tribal 12-04-E4
API Well Number: 43013518400000
Lease Number: 1420H624744
Surface Owner: FEE (PRIVATE)

**Approval Date:** 12/11/2012

### Issued to:

PETROGLYPH OPERATING CO, 960 Broadway Avenue, Ste 500, Bosie, ID 83703

### Authority:

Pursuant to Utah Code Ann. 40-6-1 et seq., and Utah Administrative Code R649-3-1 et seq., the Utah Division of Oil, Gas and Mining issues conditions of approval, and permit to drill the listed well. This permit is issued in accordance with the requirements of R649-3-11. The expected producing formation or pool is the GREEN RIVER Formation(s), completion into any other zones will require filing a Sundry Notice (Form 9). Completion and commingling of more than one pool will require approval in accordance with R649-3-22.

#### **Duration:**

This approval shall expire one year from the above date unless substantial and continuous operation is underway, or a request for extension is made prior to the expiration date

### **Exception Location:**

Appropriate information has been submitted to DOGM and administrative approval of the requested exception location is hereby granted.

### **General:**

Compliance with the requirements of Utah Admin. R. 649-1 et seq., the Oil and Gas Conservation General Rules, and the applicable terms and provisions of the approved Application for permit to drill.

### **Conditions of Approval:**

State approval of this well does not supercede the required federal approval, which must be obtained prior to drilling.

In accordance with Utah Admin. R.649-3-11, Directional Drilling, the operator shall submit a complete angular deviation and directional survey report to the Division within 30 days following completion of the well.

This proposed well is located in an area for which drilling units (well spacing patterns) have not been established through an order of the Board of Oil, Gas and Mining (the "Board"). In order to avoid the possibility of waste or injury to correlative rights, the operator is requested, once the well has been drilled,

completed, and has produced, to analyze geological and engineering data generated therefrom, as well as any similar data from surrounding areas if available. As soon as is practicable after completion of its analysis, and if the analysis suggests an area larger than the quarter-quarter section upon which the well is located is being drained, the operator is requested to seek an appropriate order from the Board establishing drilling and spacing units in conformance with such analysis by filing a Request for Agency Action with the Board.

Compliance with the Conditions of Approval/Application for Permit to Drill outlined in the Statement of Basis (copy attached).

### **Additional Approvals:**

The operator is required to obtain approval from the Division of Oil, Gas and mining before performing any of the following actions during the drilling of this well:

- Any changes to the approved drilling plan contact Dustin Doucet
- Significant plug back of the well contact Dustin Doucet
- Plug and abandonment of the well contact Dustin Doucet

### **Notification Requirements:**

The operator is required to notify the Division of Oil, Gas and Mining of the following actions during drilling of this well:

• Within 24 hours following the spudding of the well - contact Carol Daniels OR

submit an electronic sundry notice (pre-registration required) via the Utah Oil & Gas website

at http://oilgas.ogm.utah.gov

- 24 hours prior to testing blowout prevention equipment contact Dan Jarvis
- 24 hours prior to cementing or testing casing contact Dan Jarvis
- Within 24 hours of making any emergency changes to the approved drilling program
  - contact Dustin Doucet
- 24 hours prior to commencing operations to plug and abandon the well contact Dan Jarvis

### **Contact Information:**

The following are Division of Oil, Gas and Mining contacts and their telephone numbers (please leave a voicemail message if the person is not available to take the call):

- Carol Daniels 801-538-5284 office
- Dustin Doucet 801-538-5281 office

801-733-0983 - after office hours

• Dan Jarvis 801-538-5338 - office

801-231-8956 - after office hours

### Reporting Requirements:

All reports, forms and submittals as required by the Utah Oil and Gas Conservation General Rules will be promptly filed with the Division of Oil, Gas and Mining, including but not limited to:

- Entity Action Form (Form 6) due within 5 days of spudding the well
- Monthly Status Report (Form 9) due by 5th day of the following calendar month

- Requests to Change Plans (Form 9) due prior to implementation
- Written Notice of Emergency Changes (Form 9) due within 5 days
- Notice of Operations Suspension or Resumption (Form 9) due prior to implementation
  - Report of Water Encountered (Form 7) due within 30 days after completion
- Well Completion Report (Form 8) due within 30 days after completion or plugging

Approved By:

For John Rogers Associate Director, Oil & Gas Form 3160-3 (August 2007)

### RECEIVED

DEPARTMENT OF THE INTERIOR DOV \$\frac{1}{2}\$ 2012

FORM APPROVED OMB No. 1004-0136 Expires July 31, 2010

## APPLICATION FOR PERMIT TO DRILL OR REENTER

5. Lease Serial No. 1420H624744

****	MIT TO DRILL OR RESIDENTER	6. If Indian, Allottee or Tribe Name UINTAH AND OURAY
1a. Type of Work: 🛛 DRILL 🔲 REENTER	CONFIDENTIAL	7. If Unit or CA Agreement, Name and No.
	Other Single Zone Multiple Zone	
PETROGLYPH OPERATING CO INEMail: edi	ntact: ED H TROTTER trotter@easilink.com	9. API Well No.
3a. Address	3b. Phone No. (include area code)	43 01 3 51840 10. Field and Pool, or Exploratory
ROOSEVELT, UT 84066	Ph: 435-789-4120 Fx: 435-789-1420	UNDESIGNATED
4. Location of Well (Report location clearly and in ac	ccordance with any State requirements.*)	11. Sec., T., R., M., or Blk. and Survey or Area
At surface NENW 535FNL 1556F At proposed prod. zone NWNW 660FNL 660FN	WL 40.066697 N Lat, 110.288336 W Lon	Sec 12 T5S R4W Mer UBM SME: FEE
14. Distance in miles and direction from nearest town or	nost office*	12 (2
16.89 MILES SOUTHWEST OF MYTON, U	TAH	12. County or Parish DUCHESNE UT
15. Distance from proposed location to nearest property of lease line, ft. (Also to nearest drig. unit line, if any)		17. Spacing Unit dedicated to this well
469	480.00	
<ol> <li>Distance from proposed location to nearest well, drill completed, applied for, on this lease, ft.</li> </ol>	ling, 19. Proposed Depth	20. BLM/BIA Bond No. on file
2142	6139 MD 6026 TVD	LPM4138335
21. Elevations (Show whether DF, KB, RT, GL, etc. 5968 GL	22. Approximate date work will start 01/15/2013	23. Estimated duration 45 DAYS
	24. Attachments	
The following, completed in accordance with the requireme	ents of Onshore Oil and Gas Order No. 1, shall be attached t	to this form:
<ol> <li>Well plat certified by a registered surveyor.</li> <li>A Drilling Plan.</li> <li>A Surface Use Plan (if the location is on National Forest SUPO shall be filed with the appropriate Forest Service</li> </ol>	System Lands, the System Lands	tions unless covered by an existing bond on file (see information and/or plans as may be required by the
25. Signature (Electronic Submission)	Name (Printed/Typed) LESTER FARNSWORTH Ph: 435-722	2-2531 Date 11/02/2012
Title DISTRICT MANAGER		
Approved by (Signature)	Name (Printed/Typed)  Jerry Kenczk	(a FEB 1 1 2013
Lands & Mineral Resources	Office VERNAL FIELD OFFICE	1 2011 2010
Application approval does not warrant or certify the applications thereon.  Conditions of approval, if any, are attached.	nt holds legal or equitable title to those rights in the subject <b>CONL</b>	lease which would entitle the applicant to conduct DITIONS OF APPROVAL ATTACHED
Fitle 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 12 States any false, fictitious or fraudulent statements or representations.	212, make it a crime for any person knowingly and willfully	to make to any department or agency of the United

Additional Operator Remarks (see next page)

Electronic Submission #157722 verified by the BLM Well Information System
For PETROGLYPH OPERATING CO INC, sent to the Vernal
Committed to AFMSS for processing by JOHNETTA MAGEE on 11/13/2012 (13JM0787AE) OF OIL, GAS & MINING

NOTICE OF APPROVAL

RECEIVED

FEB 2 2 2013



# UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT VERNAL FIELD OFFICE

**VERNAL, UT 84078** 

(435) 781-4400



### CONDITIONS OF APPROVAL FOR APPLICATION FOR PERMIT TO DRILL

Company: Well No: API No: PETROGLYPH OPERATING CO INC

**UTE TRIBAL 12-04-E4** 

43-013-51840

Location:

NENW, Sec. 12, T5S, R4W

Lease No: 14-20-H62-4744

Agreement:

N/A

**OFFICE NUMBER:** 

(435) 781-4400

**OFFICE FAX NUMBER:** 

(435) 781-3420

## A COPY OF THESE CONDITIONS SHALL BE FURNISHED TO YOUR FIELD REPRESENTATIVE TO INSURE COMPLIANCE

All lease and/or unit operations are to be conducted in such a manner that full compliance is made with the applicable laws, regulations (43 CFR Part 3160), and this approved Application for Permit to Drill including Surface and Downhole Conditions of Approval. The operator is considered fully responsible for the actions of his subcontractors. A copy of the approved APD must be on location during construction, drilling, and completion operations. This permit is approved for a two (2) year period, or until lease expiration, whichever occurs first. An additional extension, up to two (2) years, may be applied for by sundry notice prior to expiration.

### **NOTIFICATION REQUIREMENTS**

Construction Activity (Notify Ute Tribe Energy & Minerals Dept. and BLM Environmental Scientist)	-	The Ute Tribe Energy & Minerals Dept. and BLM Environmental Scientist shall be notified at least 48 hours in advance of any construction activity. The Ute Tribal office is open Monday through Thursday.
Construction Completion (Notify Ute Tribe Energy & Minerals Dept. and BLM Environmental Scientist)	-	Upon completion of the pertinent APD/ROW construction, notify the Ute Tribe Energy & Minerals Dept. for a Tribal Technician to verify the Affidavit of Completion. Notify the BLM Environmental Scientist prior to moving on the drilling rig.
Spud Notice (Notify BLM Petroleum Engineer)	-	Twenty-Four (24) hours prior to spudding the well.
Casing String & Cementing (Notify BLM Supv. Petroleum Tech.)	-	Twenty-Four (24) hours prior to running casing and cementing all casing strings to:blm_ut_vn_opreport@blm.gov.
BOP & Related Equipment Tests (Notify BLM Supv. Petroleum Tech.)	-	Twenty-Four (24) hours prior to initiating pressure tests.
First Production Notice (Notify BLM Petroleum Engineer)	-	Within Five (5) business days after new well begins or production resumes after well has been off production for more than ninety (90) days.

### SURFACE USE PROGRAM CONDITIONS OF APPROVAL (COAs)

### • <u>CONDITIONS OF APPROVAL</u>:

- Any deviation of submitted APD's, which includes Petroglyph's surface use plan, and the
  operator will notify the BLM in writing and will receive written authorization of any such change
  with appropriate authorization.
- All operator employees and/or authorized personnel (sub-contractors) in the field will have approved applicable APD's, and COA authorizations on their person(s) during all phases of construction.
- All vehicular traffic, personnel movement, construction/restoration operations should be confined to the area examined and approved, and to the existing roadways and/or evaluated access routes.
- All personnel will refrain from collecting artifacts, any paleontological fossils, and from disturbing any significant cultural resources in the area.
- The personnel from the BLM will be notified should cultural remains from subsurface deposits be exposed or identified during construction. All construction will cease until resources can be identified and protected properly.
- Production facilities would be painted Beetle for the 12-04-E4 and Covert Green for 01-13-E4 and 01-14E4 to blend in with the surrounding habitat, unless otherwise stated from the private land owner agreement.
- Site reclamation would be accomplished for portions of the well pad not needed for production, within 6 months of completion, weather permitting. This also includes any roads, and pipeline areas that have been disturbed as well. Roads and pipeline disturbances can undergo reclamation immediately after the pipeline is installed and after the roads are built. Please contact surface owner or the BLM AO for possible seed mixes to use in the project area. Non-natives can be used; however lbs/ac must be kept low to minimize the chance of a monoculture.
- The pad locations will be recontoured and planted in native vegetation as per the land owner's request.

## DOWNHOLE PROGRAM CONDITIONS OF APPROVAL (COAs)

### SITE SPECIFIC DOWNHOLE COAs:

- Gamma Ray Log shall be run from Total Depth to Surface
- CBL will be run from TD to TOC
- Cement for the surface casing will be circulated to the surface
- Cement for long-string shall be circulated 200' above surface casing shoe.

Variances Granted

Variance for Air-drilling is granted per APD

All provisions outlined in Onshore Oil & Gas Order #2 Drilling Operations shall be strictly adhered to. The following items are emphasized:

### DRILLING/COMPLETION/PRODUCING OPERATING STANDARDS

- The spud date and time shall be reported orally to Vernal Field Office within 24 hours of spudding.
- Notify Vernal Field Office Supervisory Petroleum Engineering Technician at least 24 hours in advance of casing cementing operations and BOPE & casing pressure tests.
- All requirements listed in Onshore Order #2 III. E. Special Drilling Operations are applicable for air drilling of surface hole.
- Blowout prevention equipment (BOPE) shall remain in use until the well is completed or abandoned. Closing unit controls shall remain unobstructed and readily accessible at all times. Choke manifolds shall be located outside of the rig substructure.
- All BOPE components shall be inspected daily and those inspections shall be recorded in the
  daily drilling report. Components shall be operated and tested as required by Onshore Oil &
  Gas Order No. 2 to insure good mechanical working order. All BOPE pressure tests shall be
  performed by a test pump with a chart recorder and <u>NOT</u> by the rig pumps. Test shall be
  reported in the driller's log.
- BOP drills shall be initially conducted by each drilling crew within 24 hours of drilling out from under the surface casing and weekly thereafter as specified in Onshore Oil & Gas Order No. 2.
- Casing pressure tests are required before drilling out from under all casing strings set and cemented in place.
- No aggressive/fresh hard-banded drill pipe shall be used within casing.
- Cement baskets shall not be run on surface casing.

Page 4 of 6 Well: UTE TRIBAL 12-04-E4 2/7/2013

- The operator must report all shows of water or water-bearing sands to the BLM. If flowing water
  is encountered it must be sampled, analyzed, and a copy of the analyses submitted to the BLM
  Vernal Field Office.
- The operator must report encounters of all non oil & gas mineral resources (such as Gilsonite, tar sands, oil shale, trona, etc.) to the Vernal Field Office, in writing, within 5 working days of each encounter. Each report shall include the well name/number, well location, date and depth (from KB or GL) of encounter, vertical footage of the encounter and, the name of the person making the report (along with a telephone number) should the BLM need to obtain additional information.
- A complete set of angular deviation and directional surveys of a directional well will be submitted to the Vernal BLM office engineer within 30 days of the completion of the well.
- While actively drilling, chronologic drilling progress reports shall be filed directly with the BLM, Vernal Field Office on a weekly basis in sundry, letter format or e-mail to the Petroleum Engineers until the well is completed.
- A cement bond log (CBL) will be run from the production casing shoe to the top of cement and shall be utilized to determine the bond quality for the production casing. Submit a field copy of the CBL to this office.
- Please submit an electronic copy of all other logs run on this well by CD (compact disc).
   This submission will supersede the requirement for submittal of paper logs to the BLM.
- There shall be no deviation from the proposed drilling, completion, and/or workover program as approved. Safe drilling and operating practices must be observed. Any changes in operation must have prior approval from the BLM Vernal Field Office.

### **OPERATING REQUIREMENT REMINDERS:**

- All wells, whether drilling, producing, suspended, or abandoned, shall be identified in accordance with 43 CFR 3162.6. There shall be a sign or marker with the name of the operator, lease serial number, well number, and surveyed description of the well.
- Should the well be successfully completed for production, the BLM Vernal Field office must be
  notified when it is placed in a producing status. Such notification will be by written
  communication and must be received in this office by not later than the fifth business day
  following the date on which the well is placed on production. The notification shall provide, as a
  minimum, the following informational items:
  - o Operator name, address, and telephone number.
  - Well name and number.
  - Well location (¼¼, Sec., Twn, Rng, and P.M.).
  - Date well was placed in a producing status (date of first production for which royalty will be paid).
  - The nature of the well's production, (i.e., crude oil, or crude oil and casing head gas, or natural gas and entrained liquid hydrocarbons).
  - The Federal or Indian lease prefix and number on which the well is located; otherwise the non-Federal or non-Indian land category, i.e., State or private.
  - o Unit agreement and/or participating area name and number, if applicable.
  - Communitization agreement number, if applicable.
- Any venting or flaring of gas shall be done in accordance with Notice to Lessees (NTL) 4A and needs prior approval from the BLM Vernal Field Office.
- All undesirable events (fires, accidents, blowouts, spills, discharges) as specified in NTL 3A will be reported to the BLM, Vernal Field Office. Major events, as defined in NTL3A, shall be reported verbally within 24 hours, followed by a written report within 15 days. "Other than Major Events" will be reported in writing within 15 days. "Minor Events" will be reported on the Monthly Report of Operations and Production.
- Whether the well is completed as a dry hole or as a producer, "Well Completion and Recompletion Report and Log" (BLM Form 3160-4) shall be submitted not later than 30 days after completion of the well or after completion of operations being performed, in accordance with 43 CFR 3162.4-1. Two copies of all logs run, core descriptions, and all other surveys or data obtained and compiled during the drilling, workover, and/or completion operations, shall be filed on BLM Form 3160-4. Submit with the well completion report a geologic report including, at a minimum, formation tops, and a summary and conclusions. Also include deviation surveys, sample descriptions, strip logs, core data, drill stem test data, and results of production tests if

Page 6 of 6 Well: UTE TRIBAL 12-04-E4 2/7/2013

performed. Samples (cuttings, fluid, and/or gas) shall be submitted only when requested by the BLM, Vernal Field Office.

- All off-lease storage, off-lease measurement, or commingling on-lease or off-lease, shall have prior written approval from the BLM Vernal Field Office.
- Oil and gas meters shall be calibrated in place prior to any deliveries. The BLM Vernal Field Office Petroleum Engineers will be provided with a date and time for the initial meter calibration and all future meter proving schedules. A copy of the meter calibration reports shall be submitted to the BLM Vernal Field Office. All measurement facilities will conform to the API standards for liquid hydrocarbons and the AGA standards for natural gas measurement. All measurement points shall be identified as the point of sale or allocation for royalty purposes.
- A schematic facilities diagram as required by Onshore Oil & Gas Order No. 3 shall be submitted
  to the BLM Vernal Field Office within 30 days of installation or first production, whichever occurs
  first. All site security regulations as specified in Onshore Oil & Gas Order No. 3 shall be
  adhered to. All product lines entering and leaving hydrocarbon storage tanks will be effectively
  sealed in accordance with Onshore Oil & Gas Order No. 3.
- Any additional construction, reconstruction, or alterations of facilities, including roads, gathering
  lines, batteries, etc., which will result in the disturbance of new ground, shall require the filing of
  a suitable plan and need prior approval of the BLM Vernal Field Office. Emergency approval
  may be obtained orally, but such approval does not waive the written report requirement.
- No location shall be constructed or moved, no well shall be plugged, and no drilling or workover
  equipment shall be removed from a well to be placed in a suspended status without prior
  approval of the BLM Vernal Field Office. If operations are to be suspended for more than 30
  days, prior approval of the BLM Vernal Field Office shall be obtained and notification given
  before resumption of operations.
- Pursuant to Onshore Oil & Gas Order No. 7, this is authorization for pit disposal of water produced from this well for a period of 90 days from the date of initial production. A permanent disposal method must be approved by this office and in operation prior to the end of this 90-day period. In order to meet this deadline, an application for the proposed permanent disposal method shall be submitted along with any necessary water analyses, as soon as possible, but no later than 45 days after the date of first production. Any method of disposal which has not been approved prior to the end of the authorized 90-day period will be considered as an Incident of Noncompliance and will be grounds for issuing a shut-in order until an acceptable manner for disposing of said water is provided and approved by this office.
- Unless the plugging is to take place immediately upon receipt of oral approval, the Field Office Petroleum Engineers must be notified at least 24 hours in advance of the plugging of the well, in order that a representative may witness plugging operations. If a well is suspended or abandoned, all pits must be fenced immediately until they are backfilled. The "Subsequent Report of Abandonment" (Form BLM 3160-5) must be submitted within 30 days after the actual plugging of the well bore, showing location of plugs, amount of cement in each, and amount of casing left in hole, and the current status of the surface restoration.

Sundry Number: 35735 API Well Number: 43013518400000

	STATE OF UTAH DEPARTMENT OF NATURAL RESOUR		FORM 9
ı	5.LEASE DESIGNATION AND SERIAL NUMBER: 1420H624744		
SUNDR	Y NOTICES AND REPORTS	ON WELLS	6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
	posals to drill new wells, significantly reenter plugged wells, or to drill horiz n for such proposals.		7.UNIT or CA AGREEMENT NAME:
1. TYPE OF WELL Oil Well			8. WELL NAME and NUMBER: Ute Tribal 12-04-E4
2. NAME OF OPERATOR: PETROGLYPH OPERATING C	:O		9. API NUMBER: 43013518400000
3. ADDRESS OF OPERATOR: 960 Broadway Avenue, Ste	500 , Boise, ID, 83703	PHONE NUMBER: 208 685-7685 Ext	9. FIELD and POOL or WILDCAT: BRUNDAGE CANYON
4. LOCATION OF WELL FOOTAGES AT SURFACE: 0535 FNL 1556 FWL		COUNTY: DUCHESNE	
QTR/QTR, SECTION, TOWNSH Qtr/Qtr: NENW Section:	eridian: U	STATE: UTAH	
11. CHECI	K APPROPRIATE BOXES TO INDICA	ATE NATURE OF NOTICE, REPOR	RT, OR OTHER DATA
TYPE OF SUBMISSION		TYPE OF ACTION	
	ACIDIZE	ALTER CASING	CASING REPAIR
NOTICE OF INTENT	CHANGE TO PREVIOUS PLANS	CHANGE TUBING	CHANGE WELL NAME
Approximate date work will start:	CHANGE WELL STATUS	COMMINGLE PRODUCING FORMATIONS	CONVERT WELL TYPE
SUBSEQUENT REPORT Date of Work Completion:	DEEPEN	FRACTURE TREAT	New construction
Date of Work Completion.		PLUG AND ABANDON	PLUG BACK
	OPERATOR CHANGE		
SPUD REPORT Date of Spud:	PRODUCTION START OR RESUME	RECLAMATION OF WELL SITE	☐ RECOMPLETE DIFFERENT FORMATION
3/19/2012	REPERFORATE CURRENT FORMATION	SIDETRACK TO REPAIR WELL	L TEMPORARY ABANDON
DRILLING REPORT	TUBING REPAIR	VENT OR FLARE	WATER DISPOSAL
Report Date:	WATER SHUTOFF	SI TA STATUS EXTENSION	APD EXTENSION
	WILDCAT WELL DETERMINATION	OTHER	OTHER:
We spudded the U 1:00 P.M. using a I We set 40' of 16' co	completed operations. Clearly show te Tribal 12-04-E4 on 3/19 Bucket Rig provided by Crai anductor. For additional info Rodrigo Jurado at (435)722	9/2012 at approximately g's Roustabout Service. ormation please contact	Accepted by the Utah Division of Oil, Gas and Mining FOR RECORD ONLY March 21, 2013
NAME (PLEASE PRINT) Rodrigo Jurado	PHONE NUM 435 722-5302	BER TITLE Regulatory & Compliance S	Spc
SIGNATURE		DATE	
N/A		3/20/2013	

### BLM - Vernal Field Office - Notification Form

Operat	tor <u>Petroglyph Operating</u> F	Rig Name/# <u>Pr</u>	oPetro/Air Rig
	tted By <u>Rodrigo Jurado</u> Phor		<u>5-722-5302</u>
	ame/Number <u>Ute Tribal 12-0</u>		
	r <u>NENW</u> Section <u>12</u> Townsh		ge <u> </u> 4vv
	Serial Number <u>14-20-H62-4</u>	·/ <del>44</del>	
API NU	ımber43-013-51840	<u></u>	
Spud N	Notice – Spud is the initial spu	dding of the w	ell, not drilling
•	low a casing string.	<u>-</u>	
_		A N.4.	DM
D	oate/Time	AM	PIVI []
Casing times.	– Please report time casing r	un starts, not	cementing
<u> </u>	urface Casing		
_	ntermediate Casing		
=	roduction Casing		
	iner		
O	ther		
D	oate/Time <u>3/26/2013</u> <u>6:0</u>	00 AM	PM 🖂
BOPE			AECEVED
	nitial BOPE test at surface casi	ing point	MAR 2 o ZUIS
	OPE test at intermediate casir		DIV. OF OIL, GAS & MINING
<u> </u>	0 day BOPE test		or our care or remained
O	ther		
_		A N 4	1 DM
D	Pate/Time	AM	PM
Remar	ks We intend to run +/- 500'	of 8-5/8" J-55	Casing at the
	ndicated. (Sent 3/25/2013 @ 1		
		<del>-</del>	

# BLM - Vernal Field Office - Notification Form

Operator Petroglyph Operating Rig Name/# ProPetro/Air Rig
Submitted By Rodrigo Jurado Phone Number 435-722-5302
Well Name/Number <u>Ute Tribal 12-04-E4</u>
Qtr/Qtr NENW Section 12 Township 5S Range 4W
Lease Serial Number <u>14-20-H62-4744</u>
API Number43-013-51840
Spud Notice – Spud is the initial spudding of the well, not drilling out below a casing string.
Date/Time <u>3/19/2013</u> <u>10:00</u> AM ⊠ PM □
Casing — Please report time casing run starts, not cementing times.  Surface Casing Intermediate Casing Production Casing Liner Other
Date/Time AM  PM
BOPE Initial BOPE test at surface casing point BOPE test at intermediate casing point BOPE test at intermediate casing point Other  RECEIVED MAR 1 9 2013  DIV. OF OIL, GAS & MINING Other
Date/Time AM
Remarks We intend to spud this well at the time indicated. We

plan to set 40' of 16" Conductor. (Sent 3/18/2013 @ 10:30A.M.)

## STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS AND MINING

			ENTITY ACTIO	N FORM				
Operator:	Petrog	glyph Operating Compan	ny	Ope	rator Ac	count Nu	ımber: 1	3800
Address: P.O. Box 607								
Weil 1	city Ro	posevelt UT	Phone Number: (435) 722-25					
	API Number Well Name		Name	QQ	Sec	Twp	Rng	County
43013	51840	Ute Tribal 12-04-E4		NENW	12	58	4W	Duchesne
Action	Code	Current Entity Number	New Entity Number	Spud Date		d Date Entity Assignme		
	<del></del> В	€ 99999	18870	3/19/2013		3/19/2013 28-Mar-zo		-Mar - 2013.

107-11-0

Comments:

API Number	Well I	QQ	Sec	Twp	Rng	County	
Action Code	Current Entity Number	New Entity Number	S	l Spud Da	te		y Assignment fective Date
Comments:							

### Well 3 County Rng **Well Name** QQ Sec Twp **API Number Entity Assignment Spud Date New Entity Current Entity Action Code Effective Date** Number Number Comments:

# **ACTION CODES:**

- A Establish new entity for new well (single well only)
- B Add new well to existing entity (group or unit well)
- C Re-assign well from one existing entity to another existing entity

Please add to existing 01-14-E4 Tank Battery.

- D Re-assign well from one existing entity to a new entity
- Other (Explain in 'comments' section)

RECEIVED

MAR 25 2013

Rodrigo Jurado Name (Blease Print) Signature Regulatory Compliance Spc 3/25/2013 Date

(5/2000)

**Print Form** 

# CONFIDENTIAL

# **BLM - Vernal Field Office - Notification Form**

Operat	tor Petroglyph Operating	Rig Name/# Azte	c # 673
Submit	ιτεα By <u>Kenny Grav</u>	Phone Number 970	-361-3271
well iv	ame/Number <u>Ute Tribal 12-</u>	-04-E4	
Qtr/Qt	r NENW Section 12	Township 59	Sange AW
Lease :	Serial Number <u>14-20-H62</u> -4	744	
API Nu	ımber <u>43-013-51840</u>		·
Spud Nout bel	Notice – Spud is the initial low a casing string.	spudding of the we	ell, not drilling
D	ate/Time	AM [	PM 🗌
Casing times.	<ul> <li>Please report time casi</li> </ul>	ng run starts, not co	ementing
	urface Casing		RECEIVED
	ntermediate Casing		APR 1 8 2013
	roduction Casing		AFR 1 & ZUIJ
	ner	ס	OIV. OF OIL, GAS & MINING
	ther		
Da	ate/Time	AM [	РМ
<b>BOPE</b>			
BC 30	nitial BOPE test at surface OPE test at intermediate of Oday BOPE test Ther	casing point casing point	
Da	ate/Time <u>04/19/2013</u>	10:00 AM ✓	PM
Remark	<b>(S</b>		

	STATE OF UTAH DEPARTMENT OF NATURAL RESOURCE	3	FORM 9
ı	DIVISION OF OIL, GAS, AND MINII		5.LEASE DESIGNATION AND SERIAL NUMBER: 1420H624744
SUNDR	Y NOTICES AND REPORTS O	N WELLS	6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
Do not use this form for pro current bottom-hole depth, FOR PERMIT TO DRILL forn	posals to drill new wells, significantly de reenter plugged wells, or to drill horizont n for such proposals.	epen existing wells below al laterals. Use APPLICATION	7.UNIT or CA AGREEMENT NAME:
1. TYPE OF WELL Oil Well			8. WELL NAME and NUMBER: Ute Tribal 12-04-E4
2. NAME OF OPERATOR: PETROGLYPH OPERATING C	00		<b>9. API NUMBER:</b> 43013518400000
3. ADDRESS OF OPERATOR: 960 Broadway Avenue, Ste		PHONE NUMBER: 208 685-7685 Ext	9. FIELD and POOL or WILDCAT: BRUNDAGE CANYON
4. LOCATION OF WELL FOOTAGES AT SURFACE: 0535 FNL 1556 FWL			COUNTY: DUCHESNE
QTR/QTR, SECTION, TOWNSH	HIP, RANGE, MERIDIAN: 12 Township: 05.0S Range: 04.0W Meridi	an: U	STATE: UTAH
11. CHEC	K APPROPRIATE BOXES TO INDICATE	NATURE OF NOTICE, REPOR	RT, OR OTHER DATA
TYPE OF SUBMISSION		TYPE OF ACTION	
	ACIDIZE	ALTER CASING	CASING REPAIR
Approximate date work will start:	CHANGE TO PREVIOUS PLANS	CHANGE TUBING	CHANGE WELL NAME
5/14/2013	CHANGE WELL STATUS	COMMINGLE PRODUCING FORMATIONS	CONVERT WELL TYPE
SUBSEQUENT REPORT	DEEPEN	FRACTURE TREAT	NEW CONSTRUCTION
Date of Work Completion:	OPERATOR CHANGE	PLUG AND ABANDON	PLUG BACK
	PRODUCTION START OR RESUME	RECLAMATION OF WELL SITE	RECOMPLETE DIFFERENT FORMATION
SPUD REPORT Date of Spud:	REPERFORATE CURRENT FORMATION	SIDETRACK TO REPAIR WELL	TEMPORARY ABANDON
	TUBING REPAIR	VENT OR FLARE	WATER DISPOSAL
DRILLING REPORT	WATER SHUTOFF	SI TA STATUS EXTENSION	APD EXTENSION
Report Date:	WILDCAT WELL DETERMINATION	OTHER	OTHER:
12. DESCRIBE PROPOSED OR	COMPLETED OPERATIONS. Clearly show all	pertinent details including dates, o	lepths, volumes, etc.
availability, Petrog fracture treat the w Titan 3-1/8" perf 23.54" TTP @ 4 spf Halliburton 8K Cor 15# gelled fluid co the following: 386 4313-25 4394-96 4893-4909 499 5250-54 5256-58 5566-70 5673-8	. •	ands to perforate and end to perforate using parges, 0.42" EHD, to isolate zones using eat using Dyna HT 25 in tend to perforate 4 3904-06 3980-83 4732-38 4880-85 192-99 5239-42 5510-19 5521-28 6 5906-08 5964-66 5	Accepted by the Utah Division of Oil, Gas and Mining  Date: May 07, 2013  By: Date Duf  970-76 5988-91 5995-97 t, well will be swabbed, pump
NAME (PLEASE PRINT) Rodrigo Jurado	PHONE NUMBER	R TITLE Regulatory & Compliance S	nc
SIGNATURE	435 722-5302	DATE	P <sup>o</sup>
N/A		5/7/2013	

Sundry Number: 38295 API Well Number: 43013518400000

	STATE OF UTAH			FORM 9
ı	DEPARTMENT OF NATURAL RESOU DIVISION OF OIL, GAS, AND M			5.LEASE DESIGNATION AND SERIAL NUMBER: 1420H624744
SUNDR	Y NOTICES AND REPORTS	S ON	WELLS	6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
	posals to drill new wells, significant reenter plugged wells, or to drill hori n for such proposals.			7.UNIT or CA AGREEMENT NAME:
1. TYPE OF WELL Oil Well				8. WELL NAME and NUMBER: Ute Tribal 12-04-E4
2. NAME OF OPERATOR: PETROGLYPH OPERATING C	20			<b>9. API NUMBER:</b> 43013518400000
3. ADDRESS OF OPERATOR: 960 Broadway Avenue, Ste	500 , Boise, ID, 83703		NE NUMBER: 685-7685 Ext	9. FIELD and POOL or WILDCAT: BRUNDAGE CANYON
4. LOCATION OF WELL FOOTAGES AT SURFACE: 0535 FNL 1556 FWL				COUNTY: DUCHESNE
QTR/QTR, SECTION, TOWNSH	HIP, RANGE, MERIDIAN: 12 Township: 05.0S Range: 04.0W M	1eridian:	U	STATE: UTAH
11. CHECI	K APPROPRIATE BOXES TO INDIC	CATE NA	ATURE OF NOTICE, REPOR	RT, OR OTHER DATA
TYPE OF SUBMISSION			TYPE OF ACTION	
	ACIDIZE	A	LTER CASING	CASING REPAIR
NOTICE OF INTENT Approximate date work will start:	CHANGE TO PREVIOUS PLANS	□ c	HANGE TUBING	CHANGE WELL NAME
Approximate date work will start.	CHANGE WELL STATUS	□ c	OMMINGLE PRODUCING FORMATIONS	CONVERT WELL TYPE
SUBSEQUENT REPORT Date of Work Completion:	DEEPEN	□ F	RACTURE TREAT	☐ NEW CONSTRUCTION
5/28/2013	OPERATOR CHANGE	□ р	LUG AND ABANDON	PLUG BACK
SPUD REPORT	✓ PRODUCTION START OR RESUME		ECLAMATION OF WELL SITE	RECOMPLETE DIFFERENT FORMATION
Date of Spud:	REPERFORATE CURRENT FORMATION	□ s	IDETRACK TO REPAIR WELL	TEMPORARY ABANDON
	TUBING REPAIR	Пу	ENT OR FLARE	WATER DISPOSAL
DRILLING REPORT Report Date:	WATER SHUTOFF		I TA STATUS EXTENSION	APD EXTENSION
Report Bate.				
	WILDCAT WELL DETERMINATION		THER	OTHER:
	COMPLETED OPERATIONS. Clearly sho	_	_	Accepted by the Utah Division of Oil, Gas and Mining FOR RECORD ONLY June 07, 2013
NAME (PLEASE PRINT) Rodrigo Jurado	<b>PHONE NUI</b> 435 722-5302	MBER	TITLE Regulatory & Compliance S	pc
SIGNATURE	100 122 0002		DATE	
N/A			5/30/2013	

RECEIVED: May. 30, 2013

Sundry Number: 39211 API Well Number: 43013518400000

STATE OF UTAH  DEPARTMENT OF NATURAL RISCOURCES DIVISION OF OIL, GAS, AND MINING  SUNDRY NOTICES AND REPORTS ON WELLS  Do not use this form proposate to drill new wells, significantly deepen existing wells below reported that the proposation of the proposatio				FORM 9
SUNDRY NOTICES AND REPORTS ON WELLS  Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION POR PERMIT TO BRILL form to such proposals.  1.TYPE OF WELL  2. NAME OF OPERATOR: PETROGLYPH OPERATING CO  3. ADDRESS OF OPERATOR: PETROGLYPH OPERATING CO  4. LICATION OF WELL  1. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA  TYPE OF SUBMISSION  TYPE OF ACTION  4. LICATION OF WELL  1. TYPE OF ACTION  TYPE OF ACTION  TYPE OF ACTION  4. ADDRESS OF OPERATOR: PROGRAM WELL STATUS  4. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA  TYPE OF SUBMISSION  TYPE OF ACTION  4. ADDRESS OF OPERATOR COMMUNICE PROGRAM WELL STATUS  5. BUBBLISSION  TYPE OF ACTION  6. GABRO REPAR  6. GRANGE PETROGLY  6. CHANGE WELL STATUS  6. CHANGE WELL STATUS  6. CHANGE WELL STATUS  7. CHANGE WELL STATUS  7. BUBBLISSION  TYPE OF ACTION  6. GRANGE PETROGLY  7. BUBBLISSION  TYPE OF ACTION  6. GRANGE PETROGLY  7. BUBBLISSION  TYPE OF ACTION  7. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT  7. BUBBLISSION  TYPE OF ACTION  7. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT  7. CHECK APPROPRIATE OF OPERATOR COMMUNICE PROGRAM WELL  7. BUBBLISSION  TYPE OF ACTION  7. BUBBLISSION  TYP				I SKIII S
DO NOT USE THIS FORM TO POPOSED TO drill now wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.  1. TYPE OF WELL Oil Well 2. NAME OF OPERATOR: SETROGLYPH OPERATING CO 3. ADDRESS OF OPERATOR: SETROGLYPH OPERATOR: SET OF SET OF SET OF SET OPERATOR: SET OF SET OPERATOR: SET OF SET OPERATOR: SET OF SET OPERATOR: SET				I .
CUTTEN DOTTION FOR AGREEMENT NAME:  FOR PERMIT TO DRILL form for such proposals.  1.TYPE OF WELL OIL Well  2. NAME OF OPERATOR: PETROGLYPH OPERATING CO  3. ADDRESS OF OPERATOR: PETROGLYPH OPERATOR:	SUNDF	Y NOTICES AND REPORTS C	ON WELLS	6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
QI NAME OF OPERATOR: 2. NAME OF OPERATOR: 2. NAME OF OPERATOR: 2. NAME OF OPERATOR: 3. ADDRESS OF OPERATOR: 960 Broadway Avenue, Ste 500 , Boise, ID, 83703  3. ADDRESS OF OPERATOR: 960 Broadway Avenue, Ste 500 , Boise, ID, 83703  208 685-7685 Ext  BRUNDAGE CANYON  4. FLOOTAGES, AT SUPFACE: 05-35 FNL 1556 FWL 073 FNL 1556 FWL 074 FWL 1556 FWL 075 FNL 1556 FNL 075 FNL 1556 FWL 075 FNL 1556 FWL 075 FNL 1556 FNL 075 FNL 1556 FWL 075 FNL 1556 FNL 075 FNL 075 FNL 075 FNL 075 FNL 075	current bottom-hole depth,	reenter plugged wells, or to drill horizon		7.UNIT or CA AGREEMENT NAME:
A3013518400000  3. ADDRESS OF OPERATOR: 906 Broadway Avenue, Ste 500, Boise, ID, 83703  208 685-7685 Ext  4. LOCATION OF WELL FOOTAGES AT SURRACE: 0535 FNL 1556 FVL 0TRATTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: QTI/QTI: NENW Section: 12 Township: 05.0S Range: 04.0W Meridian: U  TYPE OF SUBMISSION  TYPE OF ACTION  TYPE OF SUBMISSION  TYPE OF ACTION  ALTER CASING ALTER CASING CHANGE WELL STATUS CHANGE WELL STATU				1
4. LOCATION OF WELL FOOTAGES AT SURFACE:		xo		1
FOOTAGES AT SURFACE: 05.35 FNUL 15.65 FWL 0TROTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: QIT/QIT: NENW Section: 12 Township: 05.0S Range: 04.0W Meridian: U  11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA  TYPE OF SUBMISSION  TYPE OF ACTION  TYPE OF ACTION  ACIDIZE ALTER CASING CHANGE TUBING CHANGE TUBING CHANGE TUBING CHANGE WILL STATUS CHANGE WILL STATUS CHANGE WILL STATUS CHANGE WILL STATUS OPERATOR CHANGE PRODUCTION START OR RESUME PRODUCTION START OR RESUME PRODUCTION START OR RESUME DRILLING REPORT Date of Spud: DRILLING REPORT Report Date: UNITED STATUS EXTENSION DRILLING REPORT WATER SHUTOFF SIDE TA STATUS EXTENSION OTHER  12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.  Please see attached form. Not enough space on this form for necessary information.				1
ACIDIZE   ALTER CASING   CASING REPAIR   CHANGE TO REVIOUS PLANS   CHANGE TUBING   CHANGE WELL STATUS   CHANGE TUBING   CHANGE WELL STATUS   COMMINGLE PRODUCTION FORMATION   CHANGE WELL STATUS   CHANGE TO REPORT   CHANGE WELL STATUS   COMMINGLE PRODUCTION FORMATION   CHANGE WELL STATUS   CHANGE WELL STATUS   CHANGE WELL STATUS   COMMINGLE PRODUCTION FORMATION   CHANGE WELL STATUS   CHANGE WELL STATU	FOOTAGES AT SURFACE:			1
TYPE OF SUBMISSION  TYPE OF ACTION  TABLE WELL NAME  CHANGE TUBING  CHANGE WELL NAME  CHANGE WELL			lian: U	I .
ACIDIZE		K APPROPRIATE BOXES TO INDICATE	E NATURE OF NOTICE, REPOR	RT, OR OTHER DATA
NOTICE OF INTENT	TYPE OF SUBMISSION		TYPE OF ACTION	
Approximate date work will start:  CHANGE WELL STATUS  CHANGE WELL STATUS  CHANGE WELL STATUS  COMMINGLE PRODUCING FORMATIONS  CONVERT WELL TYPE  CHANGE WELL STATUS  COMMINGLE PRODUCING FORMATIONS  CONVERT WELL TYPE  CHANGE WELL STATUS  COMMINGLE PRODUCING FORMATIONS  CONVERT WELL TYPE  NEW CONSTRUCTION  NEW CONSTRUCTION  PLUG BACK  PRODUCTION START OR RESUME  RECLAMATION OF WELL SITE  REPORT REPORT CHANGE  TUBING REPORT  REPORT SITE ASTATUS EXTENSION  WATER SHUTOFF  WILLIAM STATUS EXTENSION  OTHER  12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.  Please see attached form. Not enough space on this form for necessary information.  CHANGE WELL STATUS  COMMINGLE PRODUCING FORMATIONS  CONVERT WELL TYPE  OCONVERT WELL TYPE  OEMACO CONVERT WELL TYPE  OCONVERT WELL TYPE  OEMACO CONVERT WELL TYPE  COMMINGLE PRODUCING FORMATIONS  CONVERT WELL TYPE  OEMACO CONVERT WELL TYPE  OEM		ACIDIZE [	ALTER CASING	CASING REPAIR
SUBSEQUENT REPORT Date of Work Completion: 6/5/2013    DEEPEN		CHANGE TO PREVIOUS PLANS	CHANGE TUBING	CHANGE WELL NAME
Date of Work Completion: 6/5/2013  OPERATOR CHANGE  PLUG AND ABANDON  PLUG BACK  PRODUCTION START OR RESUME  RECLAMATION OF WELL SITE  RECOMPLETE DIFFERENT FORMATION  TUBING REPORT  Report Date:  DRILLING REPORT  Report Date:  WATER SHUTOFF  WILD CAT WELL DETERMINATION  OTHER  TO THER:  12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.  PLOSS See attached form. Not enough space on this form for necessary information.  ACCEPTED by the Utah Division of Oil, Gas and Mining FOR RECORD ONLY	Approximate date work will start.	CHANGE WELL STATUS	COMMINGLE PRODUCING FORMATIONS	CONVERT WELL TYPE
OPERATOR CHANGE   PLUG AND ABANDON   PLUG BACK		DEEPEN	FRACTURE TREAT	NEW CONSTRUCTION
DRILLING REPORT Report Date:    REPERFORATE CURRENT FORMATION   SIDETRACK TO REPAIR WELL   TEMPORARY ABANDON     TUBING REPAIR   VENT OR FLARE   WATER DISPOSAL     WATER SHUTOFF   SI TA STATUS EXTENSION   APD EXTENSION     WILDCAT WELL DETERMINATION   OTHER   OTHER:     TEMPORARY ABANDON     WATER DISPOSAL     APD EXTENSION     OTHER:     TEMPORARY ABANDON     APD EXTENSION     OTHER:     OTHER:     Accepted by the Utah Division of Oil, Gas and Mining     FOR RECORD ONLY	6/5/2013	OPERATOR CHANGE	PLUG AND ABANDON	PLUG BACK
Date of Spud:  REPERFORATE CURRENT FORMATION SIDETRACK TO REPAIR WELL TEMPORARY ABANDON TUBING REPAIR VENT OR FLARE WATER DISPOSAL WATER SHUTOFF SI TA STATUS EXTENSION OTHER:  12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc. Please see attached form. Not enough space on this form for necessary information.  Accepted by the Utah Division of Oil, Gas and Mining FOR RECORD ONLY	SPUD REPORT	PRODUCTION START OR RESUME	RECLAMATION OF WELL SITE	RECOMPLETE DIFFERENT FORMATION
DRILLING REPORT Report Date:  UNIDOCAT WELL DETERMINATION  12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.  Please see attached form. Not enough space on this form for necessary information.  Accepted by the Utah Division of Oil, Gas and Mining FOR RECORD ONLY		REPERFORATE CURRENT FORMATION	SIDETRACK TO REPAIR WELL	TEMPORARY ABANDON
DRILLING REPORT Report Date:  WATER SHUTOFF SITA STATUS EXTENSION OTHER:  The status extension OTHER:  WILDCAT WELL DETERMINATION OTHER:  The status extension OT				WATER DISPOSAL
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.  Please see attached form. Not enough space on this form for necessary information.  Accepted by the Utah Division of Oil, Gas and Mining FOR RECORD ONLY				
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.  Please see attached form. Not enough space on this form for necessary information.  Accepted by the Utah Division of Oil, Gas and Mining FOR RECORD ONLY	Report Bate.			
Please see attached form. Not enough space on this form for necessary information.  Accepted by the Utah Division of Oil, Gas and Mining FOR RECORD ONLY				,
		d form. Not enough space on		Accepted by the Utah Division of Oil, Gas and Mining FOR RECORD ONLY
NAME (PLEASE PRINT)  Rodrigo Jurado  PHONE NUMBER  TITLE  Regulatory & Compliance Spc				Spc
SIGNATURE         DATE           N/A         6/19/2013	SIGNATURE	,,,,,	DATE	•

Sundry Number: 39211 API Well Number: 43013518400000

STATE OF UTAH

FORM 9

DIVISION OF OIL, GAS AND MINING	5. LEASE DESIGNATION AND SERIAL NUMBER: 14-20-H62-4744
SUNDRY NOTICES AND REPORTS ON V	
Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-t drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such	ole depth, reenter plugged wells, or to proposals.  7. UNIT or CA AGREEMENT NAME: 14-20-H62-4650
1. TYPE OF WELL OIL WELL GAS WELL OTHER	8. WELL NAME and NUMBER: Ute Tribal 12-04-E4
2. NAME OF OPERATOR:	9. API NUMBER:
Petroglyph Operating Company Inc.	4301351830
3. ADDRESS OF OPERATOR: P.O. Box 607 Roosevelt STATE UT 21P 84066	PHONE NUMBER: 10. FIELD AND POOL, OR WILDCAT: (435) 722-2531
4. LOCATION OF WELL  FOOTAGES AT SURFACE: 535' FNL, 1556' FWL	COUNTY: Duchesne
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: NENW 12 5S 4W U	STATE: UTAH
11. CHECK APPROPRIATE BOXES TO INDICATE NATU	IRE OF NOTICE REPORT OF OTHER DATA
TYPE OF SUBMISSION	TYPE OF ACTION
THE OF SUBMISSION ACIDIZE DEE	
NOTICE OF INTENT	CTURE TREAT  SIDETRACK TO REPAIR WELL
	CONSTRUCTION TEMPORARILY ABANDON
	RATOR CHANGE TUBING REPAIR
(Submit Original Form Only)	Annual
Date of work completion:	DUCTION (START/RESUME) WATER SHUT-OFF
6/5/2013	LAMATION OF WELL SITE OTHER: OTHER:
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent det	
On 5/3/2013 Petroglyph Operating Company ran GR/CBL and four following: 6077-81, 6026-28, 6008-12, 5995-97, 5988-91, 5970-76, 5566-70, 5521-28, 5510-19, 5339-41, 5289-86, 5264-66, 5256-58, 4893-4909, 4880-85, 4732-38, 4608-10, 4552-54, 4536-44, 4394-9 3864-66. We perforated using Titan 3-1/8" cont 22.7 gram charges. Halliburton 8K Composite Plugs for isolation we frac'd the following 5906-6081: 833 Bbls of 15% Hcl followed by a 139 Bbl fresh water 5673-5826: 1248 Bbls of fluid cont 55,000#'s of sand 5510-5570: 735 Bbls of fluid cont 50,000#'s of sand 4998-5078: 715 Bbls of fluid cont 37,783#'s of sand 4998-5078: 715 Bbls of fluid cont 55,000#'s of sand 4880-4909: 707 Bbls of fluid cont 55,000#'s of sand 4608-4610: 465 Bbls of fluid cont 18,000#'s of sand 4536-4544: 544 Bbls of fluid cont 33,000#'s of sand 4313-4369: 617 Bbls of fluid cont 38,000#'s of sand & 3864-3983: 60 We frac'd using Dyna HT25 15# gelled fluid cont 20/40 Mesh Sand Well was swabbed until a good oil cut was seen, pump ran and put	5964-66, 5906-08, 5820-26, 5808-14, 5793-96, 5673-83, 5250-54, 5239-42, 5192-99, 5071-78, 5054-67, 4998-5000, 6, 4313-25, 3980-83, 3904-05, 3881-84, 3873-76 & 0.42" EHD, 23.54" TTP @ 4 spf @ 120* phased. Using : over flush.
NAME (PLEASE PRINT) ROOFIGO JUTADO	TITLE Regulatory Compliance Specialist
SIGNATURE	DATE 6/19/2013
This space for State use only	

(5/2000)

14. DATE SPUDDED 3/19/2013  15. DATE T.D REACHED 4/22/2013  16. TOTAL DEPTH: MD 6,351  17. D 6,245  17. TVD 6,154  22. TYPE ELECTRIC AND OTHER MECHANICAL LOGS RUN (Submit copy of each)  ACTR, SDDSN, Cement Bond Log, Borehole Volume Plot  23. WAS WELL CORED? WAS DST RUN? NO ☑ YES ☑ (Submit report) WEIGHT (##t)  TOP (MD) BOTTOM (MD) STAGE CEMENTER CEMENT TYPE 8  SIZE SIZEGRADE WEIGHT (##t) TOP (MD) SIZE DEPTH SET (MD) PACKER SET (MD) SIZ	FORM 8
### WELL COMPLETION OR RECOMPLETION REPORT AND LOG  15. TYPE OF WELL    VIEL	UMBER:
14-20-H62-4550   15-20-H62-1550   15-2	IE
B. MELL NAME OF MANUEL   DEEP.   RESTRY   DIEF.   OTHER	
2 NAMES PROTOGRATOR   PRIOR NUMBER   4301351840	
3. ADDRESS OF DEPARTOR P.O. BOX 607  2010 ROOSEVEIT  STATE UT 2018 84066  (435) 722-2531  ATTOTAL DEPTH ATTOTAL DEPTH 711' FNL 610' FWL  AT TOP PRODUCING INTERVAL REPORTED BELOW: 654' FNL 852' FWL AT TOTAL DEPTH 711' FNL 610' FWL  14. DATE SPUDDED 3/19/2013  15. DATE T.D. REACHED: 16. DATE COMPLETED 3/19/2013  19. PLUS ACT.D. MD 6, 260  TVD 6, 245  TVD 6, 245  TVD 6, 154  22. TYPE ELECTRIC AND OTHER MECHANICAL LOGIS RUN (Submit copy of each)  ACTR, SDDSN, Cement Bond Log, Borehole Volume Plot  24. CASING AND LINER RECORD (Report all strings set in well)  19. PLUS RECORD (Submit report)  10. FOR MINISTRUCTURE COMPLETED (Submit report)  24. CASING AND LINER RECORD (Report all strings set in well)  25. TUBING RECORD  26. TUBING RECORD  27. READ TYPE 8. SIZEGRADE  28. REGION S PACKER SET (MD)  19. PLUS RET (MD)  10. PACKER SET (MD)  10. PAC	
P.O. Box 607  4 LOCATION OF WELL (FOOTAGES)  AT SURFACE \$5.35' FNL 1556' FWL  AT TOP PRODUCING INTERVAL REPORTED BELOW: 654' FNL 852' FWL  AT TOTAL DEPTH: 711' FNL 610' FWL  12 COUNTY  13 STATE  14 DATE SPUDDED: 315 DATE TO REACHED  15 DATE TO REACHED  16 DATE COMPLETED: 5/28/2013  17 TO 6,245  18 TOTAL DEPTH: MD 6,351  19 PLUG BACKT ID: MD 6,260  17 TO 6,245  10 TYD 6,154  22 TYPE ELECTRIC AND DITHER MECHANICAL LOGS RUN (submit copy of each)  ACTR, SDDSN, Cement Bond Log, Borehole Volume Plot  24. CASING AND LINER RECORD (Report all strings set in well)  HOLE SIZE  18 IZE/GRADE  WEIGHT (#fft)  TOP (MD)  BOTTOM (MD)  STAGE CEMENTER  CEMENT TYPE \$  NO □ YES □ (Submit analysis)  VICE 0 FOOTAGES  VICE 0 FOOTAGES  VICE 0 FOOTAGES  TOD 0 COND  12.25 S.625 J-55 15.5 0 6,332  CEMENT TOP \$  VICE NOT SACKS  VOLUME (BBL)  CEMENT TOP \$  AMOUNT  25 LURING RECORD  26 PRODUCING INTERNALS  27 PERFORATION RECORD  SIZE DEPTH SET (MD)  SIZE DEPTH SET (MD)  PACKER SET (MD)  SIZE DEPTH SET (MD)  SIZE DEPTH SET (MD)  PACKER SET (MD)  SIZE DEPTH SET (MD)  SIZE DEPTH SET (MD)  PACKER SET (MD)  SIZE DEPTH SET (MD)  SIZE DEPTH SET (MD)  PACKER SET (MD)  SIZE DEPTH SET (MD)  SIZE DEPTH SET (MD)  PACKER SET (MD)  SIZE DEPTH SET (MD)  SIZE DEPTH SET (MD)  PACKER SET (MD)  SIZE DEPTH SET (MD)  PACKER SET (MD)  SIZE DEPTH SET (MD)  SIZE DEPTH SET (MD)  SQUERZED  (6)	
NEW   12   5W   4W   U	
AT TOP PRODUCING INTERVAL REPORTED BELOW 654' FNL 852' FWL  AT TOTAL DEPTH 711' FNL 610' FWL  14. DATE SPUDDED 3/19/2013	ANGE.
12 COUNTY   13 STATE   14 DATE SPUDDED   15 DATE ID REACHED   15 DATE COMPLETED   5/28/2013   ABANDONED   READY TO PRODUCE   7 S.982 RKB RT. GL.) 3/19/2013   4/22/2013   15 DATE COMPLETED   5/28/2013   ABANDONED   READY TO PRODUCE   7 S.982 RKB RT. GL.) 17. ELEVATIONS (DF, RKB, RT. GL.) 3/19/2013   4/22/2013   19. PLUG BACKT D: MD 6.260   TVD 6.154   20 IF MULTIPLE COMPLETIONS. HOW MANY?   21. DEPTH BRIDGE   MD TVD 6.154   23   WAS WELL CORED?   WAS DST RUN?   NO   YES   (Submit analysis)   (Submit analysis)   NO   YES   (Submit analysis)   NO   YES   (Submit analysis)   NO   YES   (Submit analysis)   (Submit analysis)   NO   YES   NO   NO   YES   NO   NO   YES   NO   NO   YES   NO   NO	U
ATTOTAL DEPTH: 711 FNL 610 FWL	TF
3/19/2013	UTAH
TVD   6,245   TVD   6,154   TVD   22. TYPE ELECTRIC AND OTHER MECHANICAL LOGS RUN (Submit copy) of each)   ACTR, SDDSN, Cement Bond Log, Borehole Volume Plot   23   WAS WELL CORED?   NO	.):
22. TYPE ELECTRIC AND OTHER MECHANICAL LOGS RUN (Submit copy) of each)  ACTR, SDDSN, Cement Bond Log, Borehole Volume Plot  23. WAS WELL CORED? WAS DST RUN? WAS DST RUN? WAS DST RUN? NO	
ACTR, SDDSN, Cement Bond Log, Borehole Volume Plot    WAS WELL CORED?   NO   YES   (Submit analysis)	
24. CASING AND LINER RECORD (Report all strings set in well)  HOLE SIZE   SIZE/GRADE   WEIGHT (#/ft.)   TOP (MD)   BOTTOM (MD)   STAGE CEMENTER   CEMENT TYPE 8   NO. OF SACKS   VOLUME (BBL)   CEMENT TOP **   AMOUNT    20   16   J-55   75   0   74	/sis)
24. CASING AND LINER RECORD (Report all strings set in well)  HOLE SIZE	
NO. OF SACKS   VOLUME (BBL)   CEMENT TOP   AMOUNT	
20	OUNT PULLED
12.25 8.625 J-55 24 0 551 G 325 67 0  7.875 5.5 J-55 15.5 0 6,332 G 903 275 0 CE  25. TUBING RECORD  SIZE DEPTH SET (MD) PACKER SET (MD) SIZE DEPTH SET (MD) PACKER SET (MD) SIZE DEPTH SET (MD) PACKER SET (	onductor
7.875       5.5       J-55       15.5       0       6,332       G       903       275       0       CE         25. TUBING RECORD         SIZE       DEPTH SET (MD)       PACKER SET (MD)       SIZE       DEPTH SET (MD)       PACKER SET (MD)       SIZE       DEPTH SET (MD)       PACKER SET	Siludotoi
SIZE         DEPTH SET (MD)         PACKER SET (MD)         SIZE         DEPTH SET (MD)         PACKER SET (MD)         SIZE         DEPTH SET (MD)         PACKER SET (	CBL
SIZE         DEPTH SET (MD)         PACKER SET (MD)         SIZE         DEPTH SET (MD)         PACKER SET (MD)         SIZE         DEPTH SET (MD)         PACKER SET (	
SIZE         DEPTH SET (MD)         PACKER SET (MD)         SIZE         DEPTH SET (MD)         PACKER SET (MD)         SIZE         DEPTH SET (MD)         PACKER SET (	
SIZE         DEPTH SET (MD)         PACKER SET (MD)         SIZE         DEPTH SET (MD)         PACKER SET (MD)         SIZE         DEPTH SET (MD)         PACKER SET (	
2.875       6,126         26. PRODUCING INTERVALS       27. PERFORATION RECORD         FORMATION NAME       TOP (MD)       BOTTOM (MD)       TOP (TVD)       BOTTOM (TVD)       INTERVAL (Top/Bot - MD)       SIZE       NO HOLES       PERFORATION STAT         (A)       Green River       3,864       6,081       3,776       5,975       3,864       6,081       0.42       736       Open	ED CET (ME)
26. PRODUCING INTERVALS           FORMATION NAME         TOP (MD)         BOTTOM (MD)         TOP (TVD)         BOTTOM (TVD)         INTERVAL (Top/Bot - MD)         SIZE         NO. HOLES         PERFORATION STAT           (A) Green River         3,864         6,081         3,776         5,975         3,864         6,081         0.42         736         Open	ER SET (WID)
FORMATION NAME         TOP (MD)         BOTTOM (MD)         TOP (TVD)         BOTTOM (TVD)         INTERVAL (Top/Bot - MD)         SIZE         NO. HOLES         PERFORATION STATE           (A) Green River         3,864         6,081         3,776         5,975         3,864         6,081         0.42         736         Open ☑         Squeezed ☑           (B)         Open ☑         Squeezed ☑	<u></u>
(B) Open Squeezed	STATUS
	ded
	red
(C) Open Squeezed	ted
(D) Open Squeezed [	ted
28. ACID, FRACTURE, TREATMENT, CEMENT SQUEEZE, ETC.	
DEPTH INTERVAL AMOUNT AND TYPE OF MATERIAL	
5,906'-6,081' 833 Bbls of 15% Hcl followed by a 139 Bbls fresh water over flush.	
3,864'-5,826' 6,331 Bbls of Dyna HT 25 15# gelled fluid containing 530,491#'s of 20/40 mesh sand.	
29. ENCLOSED ATTACHMENTS: 30. WELL STATUS:	US:
✓ ELECTRICAL/MECHANICAL LOGS ☐ SUNDRY NOTICE FOR PLUGGING AND CEMENT VERIFICATION ☐ GEOLOGIC REPORT ☐ DOST REPORT ✓ OTHER: DOGM Form 7 OTHER: DOGM FORM 7	W

(CONTINUED ON BACK)

### INTERVAL A (As shown in item #26) 31. INITIAL PRODUCTION DATE FIRST PRODUCED: TEST DATE: HOURS TESTED TEST PRODUCTION OIL - BBL GAS - MCF WATER - BBL PROD METHOD RATES: 5/28/2013 6/15/2013 24 134 92 47 Rod Pump GAS/OIL RATIO 24 HR PRODUCTION OIL - BBL GAS - MCF WATER - BBL INTERVAL STATUS: CHOKE SIZE TBG. PRESS CSG. PRESS API GRAVITY BTU - GAS RATES: 39.70 686 134 92 47 Open 30/64 110 400 INTERVAL B (As shown in item #26) GAS - MCF WATER - BBL PROD. METHOD DATE FIRST PRODUCED: TEST DATE HOURS TESTED TEST PRODUCTION OIL - BBL RATES: WATER - BBL INTERVAL STATUS: 24 HR PRODUCTION GAS - MCF CHOKE SIZE TBG. PRESS CSG. PRESS API GRAVITY BTU - GAS GAS/OIL RATIO OIL - BBL RATES: INTERVAL C (As shown in item #26) DATE FIRST PRODUCED: TEST DATE HOURS TESTED TEST PRODUCTION OIL - BBL GAS - MCF WATER - BBL PROD. METHOD OIL - BBL CHOKE SIZE: TBG. PRESS CSG. PRESS API GRAVITY BTU - GAS GAS/OIL RATIO 24 HR PRODUCTION GAS - MCF WATER - BBL INTERVAL STATUS: RATES: INTERVAL D (As shown in item #26) PROD. METHOD: DATE FIRST PRODUCED: TEST DATE HOURS TESTED TEST PRODUCTION OIL - BBL GAS - MCF WATER -- BBL RATES: GAS - MCF WATER - BBL INTERVAL STATUS: CHOKE SIZE TBG. PRESS. CSG. PRESS API GRAVITY BTU - GAS GAS/OIL RATIO 24 HR PRODUCTION OIL - BBL RATES: 32. DISPOSITION OF GAS (Sold, Used for Fuel, Vented, Etc.) Used for Fuel 34. FORMATION (Log) MARKERS: 33. SUMMARY OF POROUS ZONES (Include Aquifers): Show all important zones of porosity and contents thereof: Cored intervals and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures and recoveries Top (Measured Depth) Bottom Top Descriptions, Contents, etc. Formation (MD) 2,734 Mahogany 3,485 Garden Gulch 3,908 B Marker 4,410 X Marker 4.446 Y Marker Douglas Creek 4,452 B Lime 4,952 5,498 Castle Peak 5,901 **Basal Carbonate** 6,174 Wasatch

35. ADDITIONAL REMARKS (Include plugging procedure)

All Frac and Perf info is condensed. please see NOI and Subsequent Frac Sundry for a detailed record.

36. I hereby certify that the	ne foregoing and attached information is complete and correct as determined fro	m all avai	lable records.
NAME (PLEASE PRINT)	Rodrigo Jurado	TITLE	Regulatory Compliance Specialist
SIGNATURE	Kartin lak	DATE	7/26/13

This report must be submitted within 30 days of

- completing or plugging a new well
- drilling horizontal laterals from an existing well bore
- · recompleting to a different producing formation
- · reentering a previously plugged and abandoned well
- significantly deepening an existing well bore below the previous bottom-hole depth
- drilling hydrocarbon exploratory holes, such as core samples and stratigraphic tests

Utah Division of Oil, Gas and Mining Send to 1594 West North Temple, Suite 1210

Box 145801

Phone: 801-538-5340 801-359-3940

Salt Lake City, Utah 84114-5801

Fax:

(5/2000)

<sup>\*</sup> ITEM 20: Show the number of completions if production is measured separately from two or more formations.

<sup>\*\*</sup> ITEM 24: Cement Top – Show how reported top(s) of cement were determined (circulated (CIR), calculated (CAL), cement bond log (CBL), temperature survey (TS)).

# STATE OF UTAH

DEPART	<b>JENT</b>	OF NA	TURAL	RES	OURCES	3
DIVISIO	V OF	OIL,	GAS .	AND	MININ	G

Vell name and n	umber: Ute Ti	ibal 12-04	-E4				
API number: 430	)1351840						
Vell Location: Q	Q <u>NENW</u> Sect	on <u>12</u>	Township 5	S Range 4V	V	_ County	Duchesne
Vell operator: <u>F</u>	etroglyph Ope	rating Con	npany, Inc.				
Address: F	P.O. Box 607						
<u>ci</u>	ty Roosevelt		state UT	zip 84066		Phone	e: <u>(435)</u> 722-2531
Orilling contracto	r: ProPetro Se	ervices					
Address: 1	422 East 1500	) South					
ci	city Vernal		state UT	zip 84078		Phone	e: (435) 789-1735
Vater encounter	ed (attach add	itional pag	es as neede	ed):			
	DEPT	<u></u>		VOLUME			QUALITY
	FROM	то	(FLOW RATE OR HEAD)		D)		(FRESH OR SALTY)
	0	545		0			No Water Encountered
		<u></u>					
<u> </u>	<u> </u>		<u> </u>	***************************************			
tion topo:	4			7			3
Formation tops: (Top to Bottom)	' <b>-</b>						
	7						
	10						
	· <del>-</del>						
f an analysis ha	s been made c	of the water	r encountere	ed, please attach	a c	opy of th	ne report to this form.
			lete to the bes	t of my knowledge.			
NAME (PLEASE PRINT)	Rodrigo Jurao	lo		T	TLE	Regula	tory Compliance Specialist
		/			ATE	3/29/20	113

Job Number: UT131005	State/Country: Utah/USA
Company: Petroglyph	Declination: 11.18
Lease/Well: Ute Tribal_12-04-E4	Grid: True
Location: Sec. 12, T5S, R4W	File name: C:\DOCUME~1\PAYZONE\DESKTOP\UT131005.SVY
Rig Name: Aztec #673	Date/Time: 18-Jul-13 / 20:56
RKB: 5982'	Curve Name: Actual
G.L. or M.S.L.: GL-5968'	

# Payzone Directional Services LLC

Minimum Curvature Method Vertical Section Plane 260.30 Vertical Section Referenced to Wellhead Rectangular Coordinates Referenced to Wellhead WINSERVE SURVEY CALCULATIONS

Dogleg Severity Deg/100	.00 .04 .79 1.07 2.17	1.32 1.67 1.23 1.57 1.11
SURE Direction Deg	.00 270.00 264.16 262.72 266.91	270.66 272.13 271.45 270.00 268.64
CLOSURE Distance Direction FT Deg	.00 1.33 1.80 2.75 4.65	7.58 11.39 16.19 21.84 28.46
Vertical Section FT	.00 1.32 1.80 2.75 4.62	7.46 11.15 15.89 21.53 28.16
E.W FT	.00 -1.33 -1.79 -2.73 -4.64	-7.58 -11.38 -16.19 -21.84 -28.45
N-S FT	.00 .00 18 35	.09 .42 .41 .00
True Vertical Depth	.00 588.00 649.00 710.99 771.96	831.88 891.76 953.57 1015.31
Drift Direction Deg	.00 270.00 240.10 271.90 273.40	279.00 272.00 268.00 264.00 264.30
Incl Angle Deg	.00 .26 .69 1.14 2.46	3.20 4.10 4.80 5.70 6.40
Measured Depth FT	.00 588.00 649.00 711.00 772.00	832.00 892.00 954.00 1016.00



Page 1

Dogleg Severity Dea/100	.96 3.22 2.55 1.37 1.90	1.04 1.07 .65 .48	.14 .82 .240 1.60	3.03 .72 .76 1.02	.94 2.31 .82 .26	.97 1.04 .78 1.34	.96 1.03 .32 1.37
SURE Direction Dea	267.38 265.87 264.44 263.25 262.29	261.44 260.71 260.15 259.80 259.65	259.61 259.52 259.41 259.33 259.20	259.25 259.45 259.63 259.79 259.86	259.91 260.11 260.36 260.57 260.70	260.78 260.82 260.81 260.74 260.66	260.62 260.64 260.68 260.69
CLOS Distance FT	35.55 43.90 54.14 65.68 78.31	91.85 106.05 120.82 135.80 151.18	167.16 182.96 199.59 216.49 232.18	248.78 265.74 282.56 298.58 313.89	328.90 344.55 360.47 376.10 391.91	408.26 425.19 442.17 458.68 475.02	491.74 508.93 526.22 543.13
Vertical Section FT	35.28 43.69 54.00 65.60 78.26	91.83 106.05 120.82 135.80	167.15 182.94 199.57 216.46 232.14	248.74 265.71 282.54 298.57 313.88	328.90 344.55 360.47 376.09 391.90	408.24 425.17 442.15 458.66 475.01	491.73 508.92 526.21 543.12
E-W	-35.51 -43.79 -53.89 -65.23 -77.60	-90.83 -104.66 -119.04 -133.66 -148.72	-164.42 -179.90 -196.20 -212.75 -228.07	-244.42 -261.25 -277.94 -293.85 -308.98	-323.82 -339.43 -355.38 -371.01	402.98 419.74 436.50 452.70 468.72	-485.17 -502.15 -519.28 -535.97
N-S F7	-1.62 -3.16 -5.25 -7.72 -10.50	-13.66 -17.12 -20.66 -24.06	-30.14 -33.29 -36.68 -40.08	46.39 -48.65 -50.85 -52.92 -55.28	-57.60 -59.20 -60.37 -61.64 -63.34	-65.44 -67.85 -70.62 -73.81	-80.14 -82.80 -85.20 -87.90
True Vertical Depth	1139.55 1200.97 1262.11 1323.01	1444.19 1504.53 1564.73 1624.89	1745.89 1805.84 1865.57 1925.22 1983.13	2042.86 2102.49 2163.20 2223.08 2283.16	2343.32 2403.30 2463.20 2523.18 2583.13	2642.93 2702.57 2762.20 2821.96 2881.76	2941.46 3001.03 3060.57 3120.22
Drift Direction Deg	260.57 258.64 258.02 257.41	255.87 256.04 256.31 257.54 259.12	259.43 257.54 258.90 257.85	262.70 262.00 263.00 262.20 260.00	262.20 266.00 265.60 265.10 262.60	262.60 261.10 260.10 257.60 259.00	260.20 262.00 262.00 259.60
Incl Angle Deg	6.81 8.79 10.37 11.21	12.96 13.62 14.02 14.00	14.68 14.85 16.29 15.34	16.10 15.70 15.30 14.70 13.90	14.14 15.20 14.70 14.60 15.00	15.60 16.10 15.70 15.20	15.90 16.30 16.10 15.56
Measured Depth FT	1141.00 1203.00 1265.00 1327.00 1389.00	1451.00 1513.00 1575.00 1637.00 1699.00	1762.00 1824.00 1886.00 1948.00 2008.00	2070.00 2132.00 2195.00 2257.00 2319.00	2381.00 2443.00 2505.00 2567.00 2629.00	2691.00 2753.00 2815.00 2877.00 2939.00	3001.00 3063.00 3125.00 3187.00

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Dogleg Severity Deg/100	1.38 1.54 3.4 1.10	1.86 1.02 1.42 1.64	1.37 1.51 1.59 69	1.96 1.56 1.61 1.04	1.04 1.59 1.59 1.41	1.24 1.33 .95 .77	.70 .82 .22 1.19
CLOSURE Direction Deg	260.66 260.63 260.59 260.58 260.58	260.54 260.43 260.37 260.35 260.37	260.40 260.39 260.35 260.31 260.27	260.19 260.08 259.98 259.89 259.83	259.77 259.74 259.76 259.80 259.81	259.79 259.74 259.67 259.61 259.57	259.55 259.56 259.58 259.58
CL( Distance FT	559.58 574.84 589.64 604.72 620.11	635.29 650.94 667.08 682.37 697.91	713.50 728.34 742.33 755.62	780.32 790.99 800.79 810.32	827.77 836.41 845.54 854.41 862.69	870.27 877.18 883.46 889.30 894.92	900.40 906.16 911.99 917.64
Vertical Section FT	559.56 574.83 589.63 604.72 620.10	635.29 650.94 667.08 682.37 697.91	713.50 728.34 742.33 755.62 768.30	780.32 790.98 800.78 810.30	827.73 836.37 845.51 854.37 862.66	870.24 877.13 883.41 889.24 894.85	900.32 906.08 911.92 917.56
E-W FT	-552.16 -567.17 -581.70 -596.57 -611.76	-626.65 -641.89 -657.68 -672.71 -688.08	-703.51 -718.12 -731.84 -744.84	-768.91 -779.17 -788.57 -797.74 -806.42	-814.61 -823.03 -832.06 -840.90	-856.50 -863.16 -869.14 -874.72 -880.14	-885.48 -891.16 -896.94 -902.52
N-S FT	-90.80 -93.62 -96.43 -98.99 -101.43	-104.46 -108.17 -111.62 -114.40	-119.02 -121.60 -124.39 -127.19	-132.97 -136.25 -139.37 -142.22	-146.97 -148.99 -150.39 -151.31	-154.21 -156.19 -158.42 -160.38	-163.23 -164.21 -165.02
True Vertical Depth	3181.03 3241.12 3301.33 3361.47 3421.53	3480.60 3540.59 3601.48 3660.53 3720.55	3780.56 3840.75 3901.15 3961.71 4022.39	4084.23 4144.27 4205.47 4267.73 4328.06	4389.48 4450.87 4512.19 4573.55 4634.99	4696.53 4758.14 4819.80 4881.52 4943.26	5005.02 5067.76 5128.48 5191.22
Drift Direction Deg	260.10 258.60 259.47 261.01 260.75	256.22 256.44 258.91 260.11	260.80 259.08 257.89 257.54	252.80 251.74 251.56 253.85 254.20	254.90 257.90 264.60 263.40 258.81	256.26 250.30 248.80 252.60 254.50	259.16 261.30 262.70 259.40
Incl Angle Deg	14.70 13.82 13.80 14.37	14.50 14.81 14.92 14.11	14.20 13.50 12.60 12.17 11.47	10.63 9.70 8.70 8.83 8.20	7.56 8.50 8.48 8.00 7.38	6.68 6.20 5.63 5.32 5.14	5.01 5.49 5.49 4.80
Measured Depth FT	3250.00 3312.00 3374.00 3436.00 3498.00	3559.00 3621.00 3684.00 3745.00 3807.00	3869.00 3931.00 3993.00 4055.00 4117.00	4180.00 4241.00 4303.00 4366.00 4427.00	4489.00 4551.00 4613.00 4675.00 4737.00	4799.00 4861.00 4923.00 4985.00 5047.00	5109.00 5172.00 5233.00 5296.00

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Dogleg Severity	1.43 1.26 1.08 .42 .56	. 4.3 1.16 2.33 . 89	.37 .37 .79 .79	.00
CLOSURE nce Direction Dea	259.61 259.67 259.72 259.75 259.77	259.78 259.80 259.79 259.77 259.75	259.72 259.69 259.65 259.58 259.52	259.47
CL( Distance FT	922.47 926.80 930.42 933.71 936.78	939.64 942.47 945.07 947.44 949.60	951.48 953.44 955.49 957.27 958.84	960.53 962.21
Vertical Section FT	922.40 926.74 930.37 933.66 936.74	939.60 942.44 945.03 947.40 949.55	951.43 953.38 955.43 957.19 958.75	960.43
E-W FT	-907.34 -911.77 -915.49 -918.81	-924.74 -927.58 -930.11 -932.38	-936.19 -938.03 -939.93 -941.49	-944.35 -945.89
R-N	-166.41 -166.24 -166.02 -166.10 -166.39	-166.65 -166.90 -167.48 -168.25 -169.02	-169.86 -170.70 -171.73 -173.07	-175.60 -176.48
True Vertical Depth	5252.03 5314.87 5376.76 5438.67 5500.59	5562.53 5624.46 5686.41 5748.36 5810.32	5872.29 5934.26 5997.22 6059.19 6121.16	6184.13 6245.10
Drift Direction Deg	268.80 276.04 270.37 266.63 262.20	267.78 262.28 250.73 251.47 246.90	242.07 248.97 234.60 223.08 225.72	240.14
Incl Angle Deg	4.35 3.74 3.16 2.99 2.72	2.59 2.68 2.15 2.29 1.76	1.85 1.89 2.07 1.76 1.80	1.67 Bit @TD 1.67
Measured Depth FT	5357.00 5420.00 5482.00 5544.00 5606.00	5668.00 5730.00 5792.00 5854.00 5916.00	5978.00 6040.00 6103.00 6165.00 6227.00	6290.00 1.67 <b>Projection to Bit @TD</b> 6351.00 1.67